						SOI	L BORING LOG SHEET						
BOREHOLE NU	MBER:	CC-C-001		Instrument			Model Number				Seria	ial Number	
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet						
Start Time:		8:20			Commpletion Ti	me:	8:40						
Start Date:		2/11/2014			Completion Date	e:	2/11/2014						
MARRSIM Wal	kover Survey (10)'X10')					Annihaning Antiquity	RAD (2X Bad	kground)		As	Pb	
Range	3,54	0-4,220 cpm	Point	4,15	8 cpm	ľ	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		
1 2		3.5				Dry		0.0	18	99	3,150		
3				SW	10YR3/3	·	Medium-Fine Sands, Some Gravel, Some Silt.	0.1	18	111	3,390		
5			-					0.0	5.8	28	3,600		
6													
7								0.0	< 5.8	46	3,340		
8	5	3				Moist							
9							Fine Sands, Trace Gravel, Some Silt.	0.0	9	85	3,390		
10			_	SM	10YR3/4								
11	2	2				Wet	Fine Sands & Organic Material	2.0	17	61	3,590		
12	_	_								-	-,,,,,		

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:45			Commpletion Ti	me:	10:10					
Start Date:		2/11/2014			Completion Date	2:	2/11/2014					
MARRSIM Wall	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	3,91	0-4,350 cpm	Point	4,318	3 срт	'	World Till Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2				sw	10YR3/2		Medium-Fine Sands, Some Silt, Some Gravel	0.0	<7	84	3,690	
3	5	3		SM	10YR7/8	Dry	Fine Sands, Silt.	0.0	< 3.4	7.8	3,740	
5					10YR3/6			0.0	31	195	3,700	
6												
7								0.0	< 5.9	28	3,690	
8	5	3		SW			Medium-Fine Sands, Some Gravel, Some Silt.					
9					10YR2/2	Wet		0.0	< 3.9	6.8	3,850	
10								5.0	- 5.5	5.0	3,330	
11	2	2		GW			Gravely Sands	0.0	< 3.5	< 5.0	3,800	
12	2	<u> </u>		G V V			Gravery Sarius	0.0			3,000	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-003		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		8:30			Commpletion Ti	me:	9:00					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')				Monitoring Action levels RAD (2X Ba			ckground)		As	Pb
Range	3,47	'0-4,130 cpm	Point	3,61	1 cpm	14,648			cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Soil Moisture Soil Description PID Reading			As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	r noto Log
1 2	. 5	3			10YR5/4	- Dry	Medium-Fine Sands, Trace Gravel, Some Silt.	0.0	< 4.7	40	3340	
4				SW			Medium Sands, Some Silt.	0.4	4.8	7.7	3560	
5 6								0.0	15	151	3470	
7					10YR2/2	Wet	Medium-Fine Sands, Some Gravel.					
8	5	4						0.0	21	579	4000	111
9				SM		Dry	Fine Sands, Some Silt	0.0	16	129	3620	

						SOI	BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-004		Instrument			Model Number	-			Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			-
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		9:10			Commpletion Ti	me:	9:35					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,83	30-4,300 cpm	Point	3,94	9 cpm	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Edg
0 1 2 3 4	. 5	3.5		SM	10 YR6/6	Dry	Fine Sands, Some Silt.	0.0	32 < 4.5	45	3,310 3,460	
6				SW			Medium -Fine Sands, trace Gravel, Some Silt.	0.0	17	155	3,420	
7					10YR2/2			0.0	32	402	3,360	
8	5	3.5		SM		Moist	Fine Sands, Some Silt.					
9							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0	< 19	581	3,390	
10								0.0	113	301	3,330	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-005		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:00			Commpletion Ti	me:	11:30					
Start Date:		2/11/2014			Completion Date	2:	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')	1	T			Monitoring Action levels	RAD (2X Bac			As	Pb
Range	3,45	0-4,500 cpm	Point	3,497	7 cpm	·		14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
0 1 2		3				Moist		0.0	< 4.5	23	3,640	
3	3	3		GW	10YR6/3	Moist	Gravely Sand	0.0	< 4.6	17	4,220	
4												
5			_					0.0	< 4.2	12.5	3,690	
6												
7								0.0	24	166	4,020	
8	5	4			10YR2/1							
9				SM		Wet	Fine Sands, Silt.	0.0	17	116	3,230	
10				3141			·c sarias, sinc	3.0		110	3,230	
11	2	2			10YR3/1			0.0	25	151	3,490	
12	2	2			10103/1			0.0	دع	131	3,430	1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-006		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:05			Commpletion Tir	me:	10:35					
Start Date:		2/11/2014			Completion Date	<u>:</u>	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,78	0-4,280 cpm	Point	4,20	6 cpm			14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1	5	4				Dry		0.0	13	103	3,210	
3		·						0.0	21	373	3,170	
5				sw		Moist	Medium-Fine Sands, Some Gravel, Some Silt.	0.0	53	367	3,190	
6					10YR3/2							
7								0.0	6.5	36	3,240	
8	5	1.5										
9						Wet		0.0	15	113	3,160	
10											-,	参
11	2	2		SM			Fine Sands, Some Gravel, Some Silt.	0.0	< 5	20	3,240	
12				5			The state of the s	5.5	- 3	20	5,2.10	

						SO	IL BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-007		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X System	s Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		10:50			Commpletion T	me:	11:20					
Start Date:		2/11/2014			Completion Dat	e:	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,83	80-4,300 cpm	Point	3,94	9 cpm		cpm		24 ppm	400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Soil Moisture Soil Description PID Reading				Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2		5			10YR3/1	Dry		0.0	51	328	3,390	
4				SW			Medium-Fine Sands, Some Silt, Some Grave.	0.0	8.1	10	3,260	
6			_					0.0	< 7	86	3,350	- 1
7								0.0	9	89	3,390	
8	5	2.5			10YR3/2	Moist			-		3,333	
9				SM			Fine Sands, Some Silt.	0.0	< 5.1	138	3,280	*

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-008		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:15			Commpletion Ti	me:	12:40					
Start Date:		2/11/2014			Completion Date	2:	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,04	0-4,460 cpm	Point	4,009	Э срт	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
0					10YR5/8		Medium-Fine Sands.	0.0	< 5.7	37	3,340	
2	5	4										
3				SW				0.0	22	237	3,470	
4												
5					10YR2/1	Dry	Medium-Fine Sands, Rock, Silt.	0.0	27	189	3,390	
6												-
7								0.0	22	215	3,460	
8	5	5		SM	10YR2/2		Fine Sands, Brick & Cobble.				-,	
9				SM	101112,2		The salas, shall a cossic.	0.0	11	48	3,450	/
10								0.0	11	40	3,430	
11	2	1		SW	10YR2/1	Wet	Medium-Fine Sands, Gravel.	0.0	< 5.0	30	3,710	
12	2	1				we.		0.0	· 5.0	- 50	3,710	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-009		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		9:30			Commpletion Ti	me:	10:00					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10)'X10')				l ,	Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,63	80-4,090 cpm	Point	3,99	6 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Edg
1 2		3.5		SM	10YR7/8	Dry	Fine Sands, Some Silt.	0.0	9.5	59	3,760	
4								0.0	< 4.2	12.8	3,840	
6			_				Medium-Fine Sands, trace Gravel,	0.0	62	916	3,650	
7	5	5		SW	10YR4/3	Moict	Some Silt.	0.0	26	349	3,680	
9	, ,	3						0.0	< 13	318	3,790	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-010		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		10:00			Commpletion Ti	me:	10:30					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10	0'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,64	10-4,180 cpm	Point	3,87	3 cpm	3 cpm 14,					24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0 1 2 3 4 5 5	5	5		SM	10YR3/3 10YR5/8	Dry	Medium-Fine Sands, Some Gravel, Some Silt. Fine Sands	0.0	< 5.3 < 6	24 45	3,170 3,190	
6 7 8	5	4.5		SW	10YR3/3	Moist	Medium-Fine Sands, trace Gravel, Trace Silt.	0.0	13	145	3,320	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-011		Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		12:40			Commpletion Ti	me:	13:10					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	4,23	30-4,840 cpm	Point	4,571 cpm 14,6				14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	. 5	3		SW	10YR4/3	Moist	Medium-Fine Sands, Some Gravel, Some Silt.	0.0	69	77	3,490	
3		J		SM	10YR6/8		Fine Sand	0.0	< 3.7	< 5.2	3,450	
5						Dry		0.0	< 13	175	3,340	
6												
7				SW			Medium-Fine Sands, Silt.	0.5	24	246	3,180	
8	5	5			10YR3/2	Moist				-	-,	
9								0.0	< 8	78	3,605	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-012		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		12:50			Commpletion Ti	me:	13:25					
Start Date:		2/11/2014			Completion Date	e:	2/11/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,66	60-4,130 cpm	Point	3,829	9 cpm	, i	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	. 5	4		sw	10YR3/2		Medium-Fine Sands, Some Silt, Some Gravel.	0.0	30	282	3,270	
3		4		SM	10YR6/6		Fine Sands	0.0	4.5	< 5.3	3,340	
5						Moist		0.0	37	337	3,450	
7								0.0	10	76	3,370	
9	5	4		sw	10YR3/2		Medium-Fine Sands, Wood, Silt.					
	1							1.1	6.9	45	3,340	

						SOI	L BORING LOG SHEET				
BOREHOLE NUME	BER:	CC-C-013		Instrument			Model Number			Serial Number	
GEOLOGIST:		DNE		PID:	RAE Systems - PC	6M7600			110-009576		
HEALTH TECHNIC	IAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301		
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR15	6395	
Drilling Method:		Direct Push			Borehole Diamet	er:	2 inch				
Sampling Method	d:	Closed Piston			Borehole Depth:		12 feet				
Start Time:		8:30			Commpletion Tir	ne:	9:00				
Start Date: 2/11/2014 Compl						:	2/11/2014				
MARRSIM Walkover Survey (10'X10')							Monitoring Action levels	RAD (2X Bac	kground)	As	Pb
Range					5 cpm		Monitoring Action levels	14,648	cpm	24 ppm	400 ppm

Start Date:		2/11/2014			Completion Date	<u>. </u>	2/11/2014	DAD /2V D-	-l		۸-	DI-
	lkover Survey (10		1	1			Monitoring Action levels	RAD (2X Bad			As	Pb
Range		0-4,150 cpm	Point	3,895			ı	14,648	·		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	-1.0
1 2					10YR3/6	Dry		0.0	75	121	3,340	
	5	4					Medium-Fine Sands, Some Silt, Some					
3	3	4					Gravel.	0.0	< 13	132	3,156	
4												
5					10YR3/1			0.8	< 3.6	137	3,750	
6				SW		Moist		0.0	V 3.0	157	3,730	
7					10YR4/3		Medium-Fine Sands, Some Silt.	0.0	< 5.1	20	3,390	
8	5	3.5			20111.175		mediam rine sames, some site	0.0	-512	20	3,330	
9								0.0	26	170	3,160	
10					10YR2/1	Wet		0.0	20	170	5,100	
11	2	0.5			1011/2/1	wet	Fine Sands.	0.0	25	480	NA	
12	2	U.5						0.0	25	480	NA	1-13

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-014		Instrument			Model Number				Seri	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems				500301			
WEATHER:		Fair 14 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		7:50			Commpletion Ti	me:	8:45					
Start Date:		2/12/2014			Completion Date	9:	2/12/2014					
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	3,68	30-4,520 cpm	Point	4,18	5 cpm	ľ	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2	- 5	3.5			10YR6/6		Fine Sands.	0.0	< 4.6	11	3,260	
4					10YR2/1	Dry		0.0	21	322	3,490	
6			-	sw			Medium-Fine Sands, Some Silt.	0.0	28	266	3,160	
7	5	5			10YR2/2		wedumi-rine sanus, some siit.	0.0	24	244	3,335	-1
9								- 0.0	< 35	135	3,280	

Medium Sands, Some Silt, Brick.

Wet

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-015	_	Instrument			Model Number				Seri	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		9:00			Commpletion Ti	me:	9:50					
Start Date:		2/12/2014			Completion Date	e:	2/12/2014					
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,19	90-4,650 cpm	Point	3,38	0 cpm	'	Worldwing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Eog
2	- 5	3				Dry	Fine Sands, Some Gravel.	0.0	10	66 304	3,250	
5				SW	10YR3/3			0.0	18	220	3,290	
6						Moist	Fine Sands, Some Silt.					
7	_							0.0	< 30	1571	3,310	
9	5	3										
9	-					Wet		0.0	14	77	3,400	

						SOI	L BORING LOG SHEET						
BOREHOLE NU	MBER:	CC-C-016		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		JMC		PID:	RAE Systems - PO	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Fair 14 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:					ter:	2 inch						
Sampling Meth					Borehole Depth:		10 feet						
Start Time:		10:00			Commpletion Tir	me:	10:25						
Start Date:		2/12/2014			Completion Date	2:	2/12/2014						
MARRSIM Wal	kover Survey (1	0'X10')					Manitaring Action lovels	RAD (2X Bac	kground)		As		Pb
Range	3,28	30-4,190 cpm	Point	3,66	0 cpm	ľ	Monitoring Action levels	14,648	cpm		24 ppm		400 ppm
Depth				USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft) (ft) (ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		Prioto Log
0													

MARRSIM Wa	Ikover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	3,28	0-4,190 cpm	Point	3,660) cpm	'	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2	-				10YR4/4		Fine Sands, Trace Gravel.	0.0	11	52	3,260	
3	- 5	4				Dry		0.0	7	44	3,310	
5				SW			Fine Sands, Some Silt.	0.0	< 9	119	3,280	
6					10YR5/1						,	
7					101K5/1			0.0	< 21	595	3,360	
8	5	3				Moist	Fine Sands, Some Silt, Some Gravel.	0.0	. 22	333	3,300	
9						IVIOISE	Time Samus, Some Sint, Some Glavel.	0.0	< 4.4	14	3,420	
10								0.0	< 4.4	14	3,420	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-017		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X System:	s Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		11:00			Commpletion Ti	me:	11:25					
Start Date:		2/12/2014			Completion Dat	e:	2/12/2014					
MARRSIM Wal	kover Survey (10)'X10')			Monitoring Action levels RAD (2X Ba				ckground)		As	Pb
Range	4,62	0-5,760 cpm	Point	5,05	5,052 cpm Monitoring Action levels 14,648 c				cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code					As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2	5	4.5					Very Fine Sands, Some Gravel.	0.0	6	38	3,280	
4				SW	10YR4/6	Dry	Very Fine Sands.	0.0	< 4.1	7.2	3,420	
6			_				,	0.0	< 9	122	3,160	
7	5	5					Very Fine Sands, Some Silt.	0.0	68	1299	3,340	
9				SM	10YR5/1	Moist	Silty Sands, Crushed Rock.	0.0	12	148	3,320	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-018		Instrument			Model Number				Seria	ıl Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:15			Commpletion Ti	me:	12:40					
Start Date:		2/11/2014			Completion Date	2:	2/11/2014					
MARRSIM Wall	kover Survey (10)'X10')		•			Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,36	5-4,440 cpm	Point	3,913	3 cpm	·	World The Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	-
1							Silty Sands, Some Gravel.	0.0	9	88	3,360	
2	5	2.5				Dry						
3							Fine Sands and Silt, Some Gravel.	0.0	8	41	3,420	
4											5,120	
5						Moist		0.0	56	106	3,300	
6				SM	10YR5/3						,	
7								0.0	22	217	3,330	
8	5	2.5					Silty Sands, Organic Material (Bog)	GIG .	11	227	3,330	
9						14/-4	Sirty Salius, Organic Material (BOg)	0.0	< 10	138	3,310	
10						Wet		0.0	< 10	138	5,510	
11	2	2						0.0	30	80	3,260	
12	2	2						U.U	30	ου	3,200	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-019		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN		MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		11:30			Commpletion Ti	me:	12:00					
Start Date:		2/12/2014			Completion Date	e:	2/12/2014					
MARRSIM Wal	kover Survey (10	D'X10')				,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,70	00-4,690 cpm	Point	4,16	7 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0 1 2 3 4 5 5	5	4		sw	10YR4/4	Moist	Very Fine Sands, Some Silt, Some Gravel.	0.0	10	182	3,480	
6			-		40/02/4			0.0	14	178	3,380	
7					- 10YR2/1			0.0	19	229	3,350	
8	5	3.5		SM			Silty Sands, Some Gravel.			-	.,	
9				J			2.04 53.03, 55.112 513461.	0.0	< 10	197	3,290	
10												

						SOI	L BORING LOG SHEET						
BOREHOLE NU	JMBER:	CC-C-020		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		JMC		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR15	56395			
Drilling Metho	ıd:	Direct Push				ter:	2 inch						
Sampling Met	hod:						10 feet						
Start Time:		11:25			Commpletion Tir	me:	12:30						
Start Date:		2/12/2014			Completion Date	<u>:</u>	2/12/2014						
MARRSIM Wa	lkover Survey (1	.0'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As		Pb
Range	3,2	3,275-4,420 cpm Point 4,					violitoring Action levels	14,648	cpm		24 ppm		400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)		Photo Log
1.47	1. 7	(1-1)						W P/	45.5.7	VE E ***/	V-F/		

Start Date:		2/12/2014			Completion Date		2/12/2014	1				
MARRSIM Wal	lkover Survey (10	'X10')					Nonitoring Action levels	RAD (2X Bac			As	Pb
Range	3,27	5-4,420 cpm	Point	4,043	1 cpm		ionitoring / tetion levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2					10YR5/6		Fine Sands	0.0	< 4.2	11	3,225	
3	5	4.5			10YR3/1	Dry	Fine Sands, Crushed Rock.	0.0	7	44	3,680	
4	-											
5			_	SW				0.0	22	227	3,590	=
6												
7					10YR2/1		Fine Sands, Some Silt.	0.0	< 6	42	3,625	
8	5	5				Moist					-,-	
9						THOISE		0.0	14	30	3,420	
10								0.0	14	30	3,420	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-021		Instrument			Model Number				Seri	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		11:20			Commpletion Ti	me:	11:45					
Start Date:		2/12/2014			Completion Date	e:	2/12/2014					
MARRSIM Wal	kover Survey (10	0'X10')					Appitaring Action lovels	RAD (2X Bad	kground)		As	Pb
Range	3,37	70-4,625 cpm	Point	3,93	1 cpm	·	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhoto Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2 3	5	4.5		sw	10YR2/2	Dry	Fine Sands, Some Gravel, Brick and Cobble.	0.0	19	95 70	3,360 3,710	
5			_		10YR4/4			0.0	< 4.9	20	3,545	
7	5	4.5		SM	10YR3/2	Moist	Silty Sands, Some Gravel.	0.0	< 5.2	28	3,315	
9					10YR2/2			0.0	< 15	305	3,428	The state of the s

						SOII	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-022		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 14 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		13:00			Commpletion Ti	me:	13:15					
Start Date:		2/12/2014			Completion Date	9:	2/12/2014					
MARRSIM Wal	lkover Survey (10	0'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,79	90-4,410 cpm	Point	3,91	9 cpm	,,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	- - - 5	3		SW	10YR3/2		Fine Sands and Silt.	0.0	56	252	3,190	
3							Fine Sands and Silt, Crushed Brick.	0.0	272	236	3,370	
5			-			Moist	Silt Sands	0.0	34	243	3,610	
6	-											
7				SM	10YR5/1			0.0	52	263	3,430	
9	5	3.5					Silty Sands, Some Gravel.					
								0.0	34	257	3,580	

						SOI	L BORING LOG SHEET						
BOREHOLE NU	JMBER:	CC-C-023		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		JMC		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	od:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet						
Start Time:		11:30			Commpletion Ti	me:	11:50						
Start Date:		2/12/2014			Completion Date	2:	2/12/2014						
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As		Pb
Range	3,6	30-4,240 cpm	Point	4,07	3 cpm	'	violitoring Action levels	14,648	cpm		24 ppm		400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		T Hoto Log
0													

MARRSIM Wa	lkover Survey (10)'X10')				╛ .	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,63	0-4,240 cpm	Point	4,07	3 cpm		violitioning Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2					10YR3/3	Moist		0.0	150	144	3,260	
3	5	3.5					Very Fine Sands, Some Gravel.	0.0	12	177	3,480	
5	_			sw		Dry						
6		5						0.0	311	131	3,345	
7	<u>-</u> 5				10YR2/1			2.0	27	302	3,350	1-1
9	-					Moist	Very Fine Sands, Some Silt, Crushed Brick and Cobble.					
10								0.0	< 5.0	21	3,270	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-024		Instrument			Model Number				Seri	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		11:50			Commpletion Ti	me:	12:10					
Start Date:		2/12/2014			Completion Date	e:	2/12/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,24	0-3,980 cpm	Point	3,63	2 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2	5	3.5		sw	10YR2/1	Moist	Fine Sands, Trace Silt.	0.0	< 6	36	3,881	
4					10YR4/6			0.0	<7	65	3,750	
5			-	SM	10YR2/2		Silty Sands.	0.0	38	78	3,680	
7	5	4			10YR6/1	- Dry		0.0	< 4.4	15	3,580	
9				SW	10YR2/2		Fine Sands, Some Silt, Some Gravel.	0.0	< 4.6	19	3,900	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	CC-C-025		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		14:00			Commpletion Ti	me:	14:30					
Start Date:		2/12/2014			Completion Date	e:	2/12/2014					
MARRSIM Wa	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,6	30-5,220 cpm	Point	4,70	3 cpm		Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0												_

MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,63	0-5,220 cpm	Point	4,70	3 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1	(10)	(14)			10YR4/4	Content	Fine Sands, Some Gravel.	0.0	< 9.0	51	3,150	
3	5	5				Dry		0.0	< 15	225	3,395	
5				SW	10YR2/2		Fine Sands, Some Silt.	0.0	< 4.5	12	3,160	1-/-
7	_											
8	5	5 3.5			10VP3 /4	Moist	Fine Sands, Some Silt, Crushed Rock.	0.0	28	366	3,275	
9					10YR2/1	Moist	Fine Sands, Some Silt.	0.0	< 8	23	3,420	
10							. The suitable said	5.5	- 0	23	5,120	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-026		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN		MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 17 ^{oF}		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		11:50			Commpletion Ti	me:	12:10					
Start Date:		2/12/2014			Completion Date	2:	2/12/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,76	60-4,630 cpm	Point	3,78	0 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0 1 2 3 4 5 5	5	5		sw	10YR3/3 10YR3/1	Dry	Fine Sands.	4.0	7	39	4,000 3,980 3,775	
6								0.0	13	100	3,773	
7	5				10YR2/2			0.0	6.8	36	3,630	
8		4					Fine Sands, Some Silt, Some Gravel.					
9							Sing Some Graves	0.0	< 4.3	10.9	3,820	
10												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-027		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 29°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		13:50			Commpletion Ti	me:	14:20					
Start Date:		2/14/2014			Completion Date	2:	2/14/2014					
MARRSIM Wa	lkover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,24	10-3,280 cpm	Point	3,68	6 cpm	'	Workforming Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11000 205
2 3	- 5	4.5		SW	10YR4/3	Dry	Medium-Fine Sands, Some Gravel, Trace Silt.	0.0	31	265	4,050 3,810	
5								0.0	< 11	206	3,775	
6					10YR2/2	Moist	Medium-Fine Sands, Some Gravel,					
7							Trace Silt. (Brick)	0.0	19	309	3,630	
8	5	4.5										
9		4.5		SM	10YR4/4	Wet	Fine Sands, Some Silt.	0.0	< 4.1	10	3,820	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	CC-C-028	-	Instrument			Model Number				Seri	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301	-	·	
WEATHER:		Fair 29°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	ıd:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		13:50			Commpletion Ti	me:	14:20					
Start Date:		2/14/2014			Completion Date	e:	2/14/2014					
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	2,98	30-3,740 cpm	Point	3,47	9 cpm	ľ	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	- 5	3.5		sw	10YR4/4	Dry	Medium-Fine Sands, Some Gravel, Trace Silt.	0.0	8	57	3,760	
4				SM	10YR3/3	Moist	Fine Sands, Some Silt	0.0	< 7	40	3,930	
5			-	Sivi	10YR2/1	ivioist	rine sailus, soine siit	0.0	32	327	3,680	
7	5	5		SW		Dry	Medium-Fine Sands, Some Silt, Some Gravel.	0.0	23	161	3,620	
9	-			SM	- 10YR4/3	Moist	Fine Sands, Some Silt	0.0	< 5.5	40	4,010	

			SOI	L BORING LOG SHEET	
BOREHOLE NUMBER:	CC-C-029	Instrument:		Model Number	Serial Number
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600		110-009576
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301
WEATHER:	Rain 38°	Scaler:	Ludlum 2221		172013/PR156395
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch	
Sampling Method:	Closed Piston		Borehole Depth:	10 Feet	
Start Time:	13:30		Completion Time:	13:55	
Start Date:	2/19/2014		Completion Date:	2/19/2014	

MARRSIM Wa	lkover Survey (10	'X10')					2/19/2014	Rad (2X Bac	kground)		As	Pb
Range	3,280-3,850 cpm		Point	3397	cpm	Ņ	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advanced (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1 2	-	4			10YR4/3	Moist	Well Graded Fine Sands, Some Silt, Some Gravel.	0.0	< 4	78	5,475	
3	- 5 -	4			10YR5/3	Dry		0.0	16	68	5,480	
5				SW	10YR5/2		Well Graded Medium Sands, Some	0.0	9	88	4,580	
6					·	Moist	Silt, Some Gravel.				,	
7					10YR3/1	Moist		0.0	< 14	40	5,045	
8	5	4			10YR6/2		Well Graded Medium Sands, Some				,	
9					101110/2	Wet	Gravel.	0.8	< 15	118	4,890	
10					10YR4/1	wet		0.8	< 15	118	4,890	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-030		Instrument:			Model Number				Seri	al Number
GEOLOGIST:		JMC		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 36°F		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Met	hod:	Closed Piston			Boreho	le Depth:	10 Feet					
Start Time:		11:00			Complet	tion Time:	11:15					
Start Date:		2/14/2014			Complet	tion Date:	2/14/2014					
MARRSIM Wa	kover Survey (10)'X10')	_			١,	Monitoring Action levels	Rad (2X Bad			As	Pb
Range	3,460-3,890 cpr		Point		1 cpm			14,648			24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2	5	4		sw	10YR3/3	Moist	Fine Sands and Silt, Some Gravel	0.0	< 6	52	3,650	
3		4				Dry		0.0	< 10	134	3,580	
5			_			Moist		0.0	< 8	78	3,640	
7		4		SM	10YR2/1		- Silty Sands, Some Gravel.					
8	5					Dry		0.0	< 9	134	3,520	
9												

Fine Sands.

0.8

319

3,550

< 13

10YR3/3

Moist

SW

						SOI	L BORING LOG SHEET							
BOREHOLE NU	JMBER:	CC-C-031		Instrument:		Model Number					Seria	al Number		
GEOLOGIST:		JMC		PID:	RAE Systems - PGM7600					110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301	500301				
WEATHER:		Sunny 36°F		Scaler:	Ludlum 2221				172013/PR1	56395				
Drilling Metho	od:	Direct Push			Borehole	Borehole Diameter: 2 Inch								
Sampling Met	thod:	Closed Piston			Boreho	le Depth:	8 Feet							
Start Time:		10:25			Complet	tion Time:	10:50							
Start Date:		2/14/2014			Complet	tion Date:	2/14/2014							
MARRSIM Wa	lkover Survey (1	0'X10')		•			Monitoring Action levels	Rad (2X Bad			As	Pb		
Range	2,680-3,270 ср	m	Point	2,97	4 cpm			14,648	cpm		24 ppm	400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)			
1 2	- 5	4.5				Dry	Fine Sands, Some Gravel.	0.0	20	107	3,370			
4	_	4.3		sw	10YR2/2	J.,		0.0	29	385	3,310			
5							Fine Sands and Silt	0.0	27	681	3,440	SALE PROPERTY.		
6						Wet					,			
7	3	3												

Silty Sands.

10YR2/1

Moist

3,280

67

< 7

0.0

						SOI	IL BORING LOG SHEET						
BOREHOLE NU	JMBER:	CC-C-032 Instrument: Model Number Serial Number											
GEOLOGIST:		JMC		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	v-X Systems Inc DS-4000 500301							
WEATHER:		Sunny 36°F		Scaler:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	od:	Direct Push			Borehole	Diameter:	2 Inch						
Sampling Met	hod:	Closed Piston			Borehol	e Depth:	10 Feet						
Start Time:		11:00			Complet	ion Time:	11:15						
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014						
MARRSIM Wa	lkover Survey (1	0'X10')				Monitoring Action levels			ckground) As			Pb	
Range	2,880-3,460 срі	m	Point	3,24	7 cpm		Monitoring Action levels	14,648 cpm		24 ppm			400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		FIIOTO LOG
0 1 2	5	4			10YR3/3	Dry	Fine Sands, Some Gravel.	0.0	<7	54	3,620		

Fine Sands, Some Silt.

Fine Sands, Some Gravel.

Wet

Moist

Dry

10YR2/1

10YR4/6

SW

4

5

6

7

8

9

10

5

4.5

0.0

0.0

0.0

0.8

< 7

< 10

< 6

3.9

37

113

51

< 5.1

3,680

3,550

3,810

3,650

						SOI	L BORING LOG SHEET						
BOREHOLE NU	JMBER:	CC-C-033		Instrument:			Model Number		Serial Number				
GEOLOGIST:		JMC		PID:	RAE Systems - PGM7600					110-009576			
HEALTH TECHNICIAN: MS XRF:					Innov-X Systems Inc DS-4000 500301								
WEATHER:		Sunny 36°F		Scaler:	Ludlum 2221	dlum 2221 172013/PR156395							
Drilling Metho	od:	Direct Push			Borehole	Diameter:	2 Inch						
Sampling Met	hod:	Closed Piston			Borehol	e Depth:	10 Feet						
Start Time:		10:25			Complet	ion Time:	10:50						
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014						
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	Rad (2X Bad	ckground) As			Pb	
Range	3,560-4,120 cpr	n	Point	4,05	1 cpm	'	violitoring Action levels	14,648	14,648 cpm		24 ppm	400 ppm	
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log	
1 2	5	4				Moist	Fine Sands	0.0	14	54	3,175		
4				SW		Dry	Fine Sands, Some Gravel.	0.0	< 8	85	3,820		
5			_		10YR2/2		Fine Sands	0.0	14	127	3,155		
6						Wet							
7								0.0	< 7	61	3,420		
8	5	3.5		SM		Moist	Silty Sands, Some Gravel.						
9	-			SM	SM		Moist	Silty Sands, Some Gravel.	0.8	< 7	65	3,380	

						SOI	L BORING LOG SHEET							
BOREHOLE NU	JMBER:	CC-C-034		Instrument:			Model Number		Serial Number					
GEOLOGIST:		DE		PID:	RAE Systems - PGM7600					110-009576				
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000 500301								
WEATHER: Sunny 36°F Scaler: Ludlum 2221 172013/PR156395														
Drilling Metho	od:	Direct Push			Borehole	Diameter:	2 Inch							
Sampling Met	hod:	Closed Piston			Borehol	e Depth:	10 Feet							
Start Time:		11:45			Complet	ion Time:	12:00							
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014							
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	Rad (2X Bad	kground)		As	Pb		
Range	2,950-3,410 cpr	n	Point	3,11	0 cpm	,	violitoring Action levels	14,648 cpm			24 ppm	400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log		
2	5	4		sw	10YR4/4	Dry	Medium-Fine Sands, Some Gravel,	0.0	10	56	3,650			
4				5W			Trace Silt.	0.0	< 9	122	3,580			
					10YR3/2			0.0	< 9	84	3,460			
6					10183/2			0.0	79	84	3,460			
7						Moist		0.0	< 9	110	3,560			
8	5	3.5						0.0	.,	110	3,300			
9				SM	10YR6/4	Wet	Fine Sands and Silt.	0.8	13	177	3,620			

						SOI	L BORING LOG SHEET							
BOREHOLE NU	IMBER:	CC-C-035		Instrument:		Model Number					Serial Number			
GEOLOGIST:		JMC		PID:	RAE Systems - PGM7600					110-009576				
HEALTH TECHNICIAN: MS XRF: Innov-X					Innov-X Systems	vv-X Systems Inc DS-4000 500301								
WEATHER: Sunny 36°F Scaler: Ludlum 2					Ludlum 2221									
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch							
Sampling Met	hod:	Closed Piston			Borehol	e Depth:	10 Feet							
Start Time:		11:25			Complet	ion Time:	11:50							
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014							
MARRSIM Wa	kover Survey (10)'X10')					Monitoring Action levels	Rad (2X Bad	ckground)		As	Pb		
Range	2,790-3,240 cpr	n	Point	3,121 cpm		'	wionitoring Action levels	14,648	cpm		24 ppm	400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205		
1 2		4				Moist	Very Fine Sands and Silt, Moderately Sorted With Gravel	0.0	< 8	97	3,480			
3				SW	10YR2/1	Dry	Fine Sands and Silt, Well Sorted with Gravel.	0.0	< 12	232	3,530			
5									Fine Sands and Silt, Well Sorted.	0.0	< 7	25	3,560	
6						Wet								
7	5	4.5		SM	10YR4/4	Moist	Silt, Moderately Sorted, Some Gravel.	0.0	< 5.5	16	3,710	A STANCE OF THE		
9				SW	10YR5/6	Dry	Very Fine Sands, Well Sorted.	0.0	< 5.1	20	3,470	and the second		

Silt.

Wet

SM

						SOI	L BORING LOG SHEET							
BOREHOLE NU	JMBER:	CC-C-036		Instrument:		Model Number					Seri	al Number		
GEOLOGIST:		JMC		PID:	RAE Systems - Po	AE Systems - PGM7600 110-009576								
HEALTH TECHNICIAN: MS XRF: Innov-						v-X Systems Inc DS-4000 500301								
WEATHER: Sunny 36°F Scaler: Ludlum 22						·								
Drilling Metho	ıd:	Direct Push			Borehole	orehole Diameter: 2 Inch								
Sampling Metl	hod:	Closed Piston			Borehol	e Depth:								
Start Time:		11:25			Complet	ion Time:	11:40							
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014							
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	Rad (2X Bad	ckground)		As	Pb		
Range	2,970-3,580 cpr	n	Point	3,441 cpm			wontering Action Icvels	14,648	cpm		24 ppm	400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Edg		
1 2	5	2.5		SW		Fine Sands, Well Sorted.	0.0	< 5.6	61	3,460				
4				SM	10UR2/1	Wet	Silt, Well Sorted.	0.0	18	194	3,680			
6			_				Very Fine Sand and Silt, Well Sorted.	0.0	15	139	3,390			
7	5	4.5		SW	10YR3/1			0.0	15	230	3,475			
9					10YR5/6	Moist	Fine Sands, Well Sorted, Some Gravel.	0.0	< 3.6	8.3	3,450			

Dry

						SOI	L BORING LOG SHEET									
BOREHOLE NU	IMBER:	CC-C-037		Instrument:			Model Number				Seria	al Number				
GEOLOGIST:		DNE		PID:	RAE Systems - Po	GM7600			110-009576							
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301							
WEATHER:		Sunny 36°F		Scaler:	Ludlum 2221				172013/PR1	56395						
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch									
Sampling Met	hod:	Closed Piston			Borehol	e Depth:	10 Feet									
Start Time:		13:30			Complet	ion Time:	13:55									
Start Date:		2/14/2014			Complet	ion Date:	2/14/2014									
MARRSIM Wa	kover Survey (10)'X10')				,	Monitoring Action levels	Rad (2X Background)		As		Pb				
Range	2,940-3,320 cpr	n	Point	3,000 cpm				14,648	cpm		24 ppm	400 ppm				
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log				
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205				
1 2		5			10YR7/6	Dry	Well Graded Fine Sands, Some Gravel.	0.0	6.1	6.5	3,490					
3								SW	10YR5/6			0.0	< 5.0	26	3,425	
5			_		10YR5/3		Well Graded Fine Sands, Some Silt, Some Gravel.	0.0	< 5.4	27	3,360					
ŭ .																
7								SC	10YR4/3	Wet	Silty Clay.	0.0	9.3	19	3,505	
8	5	5			,5	Wet	,				2,222					
9				SW	10YR2/1		Well Graded Fine Sands, Some Silt.	0.0	< 9	135	4,025					

				SO	IL BORING LOG SHEET						
BOREHOLE NUMBER:	CC-C-038	Instrument:			Model Number		Serial Numbe	r			
GEOLOGIST:	JE	PID:	RAE Systems - P	GM7600		110-00957	6				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	Inc DS-4000		500301					
WEATHER:	Clear 20°F	Scaler:	Ludlum 2221			172013/PF	172013/PR156395				
Drilling Method:	Direct Push		Borehole	Borehole Diameter: 2 Inch							
Sampling Method:	Closed Piston		Borehol	e Depth:	10 Feet						
Start Time:	9:30		Completion Time: 10:00								
Start Date:	2/17/2014		Completion Date: 2/17/2014								
MARRSIM Walkover Surve	ey (10'X10')				Monitoring Action levels	Rad (2X Background)	As	Pb			
					Monitoring Action levels						

MARRSIM Wa	lkover Survey (10	'X10')					2/1//2014	Rad (2X Bac	kground)		As	Pb		
Range		0-3,840 cpm	Point	3,744	1 cpm	٨	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm		
Depth (ft)	Advanced (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log		
1 2								0.3	< 8	84	3,190			
3	5	4			10YR3/3	Moist	Well Graded Fine Sands, Some Silt, Some Gravel.	0.0	< 8	97	3,460			
5				SW				0.0	31	130	3,610			
6														
7							10YR6/6			0.0	5.7	10	3,575	
8	5	4			•		Well Graded Fine Sands, Some				, 			
9				-	10/05/0		Gravel.	0.0		.54	2.520			
10	1			10YR6/8	Wet		0.0	11	< 5.4	3,520				

				SOI	L BORING LOG SHEET					
BOREHOLE NUMBER:	CC-C-039	Instrument:			Model Number				Serial Number	
GEOLOGIST:	JE	PID:	RAE Systems - P	GM7600		11	10-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	s Inc DS-4000		50	00301			
WEATHER:	Clear 20°F	Scaler:	Ludlum 2221			17	72013/PR15	6395		
Drilling Method:	Direct Push		Borehole	Diameter:	2 Inch					
Sampling Method:	Closed Piston		Boreho	le Depth:	10 Feet					
Start Time:	8:45		Completion Time: 9:15							
Start Date:	2/17/2014		Complet	tion Date:	Date: 2/17/2014					
	460					Pad /2V Packa	round)	۸۵		Dh

Start Date:		2/17/2014			complete	ion Date:	2/17/2014	1							
MARRSIM Wa	lkover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac			As	Pb			
Range	4,41	0-5,180 cpm	Point	4,81	1 cpm		To me of the control	14,648	cpm		24 ppm	400 ppm			
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log			
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log			
1 2					10YR3/2		Well Graded Fine Sands, Some Silt,	0.0	< 10	132	3,420				
3	5	4			Some Silt.	0.0	< 9	113	3,510						
5	_			sw		Moist									
6					_		10YR6/4			0.0	< 4.4	17	3,450		
7	_							·		Well Graded Fine Sands, Trace Gravel.	0.0	< 4.2	11	3,375	
8	5	5									Graver.				
9					10YR8/3	Wet		0.0	< 5.3	< 3.8	3,560				
10											ŕ				

				SOIL BORING LOG SHEET				
BOREHOLE NUMBER:	CC-C-040	Instrument:		Model Number		Serial Number		
GEOLOGIST:	JE	PID:	RAE Systems - PGM7600		110-009576	ō		
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-40	00	500301			
WEATHER:	Clear 20°F	Scaler:	Ludlum 2221		172013/PR	156395		
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch				
Sampling Method:	Closed Piston		Borehole Depth:	10 Feet				
Start Time:	13:15		Completion Time:	2: 13:45				
Start Date:	2/17/2014		Completion Date:	2/17/2014				

Start Date:		2/17/2014			•	lon Date.	2/17/2014	Rad (2X Bac	karound)		As	Pb	
	lkover Survey (10		Point	2 500	9 cpm	N	Monitoring Action levels	14,648			24 ppm	400 ppm	
Range	i i	0-4,220 cpm		·		N 4 = 1 = 4	C-il Di-ti			DI		400 ppm	
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		
1 2						Moist		0.0	45	731	3,560		
	5	4											
3						10YR2/2			0.0	< 8	73	3,840	
4									0.0	10	,3	3,040	
5				sw	Wet		Well Graded Fine Sand, Some Silt, Some Gravel.						
6						_ Wet		0.0	< 13	171	3,670		
7			1					0.0	< 9	120	3,350		
8	5	3		10YR2/1			0.0	, ,	120	3,330			
9				101112/1				< 9	123	3,750	A STATE OF THE STA		
10								0.0	< 9	123	3,/50		

	SOIL BORING LOG SHEET													
BOREHOLE NUMBER:	CC-C-041	Instrument:			Model Number		Serial Numbe	er						
GEOLOGIST:	AR/TF	PID:	RAE Systems - P	GM7600		110-0095	76							
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	s Inc DS-4000		500301								
WEATHER:	Rain 38°	Scaler:	Ludlum 2221			172013/P	R156395							
Drilling Method:	Direct Push		Borehole	Diameter:	2 Inch									
Sampling Method:	Closed Piston		Borehol	le Depth:	12 Feet									
Start Time:	13:35		Complet	tion Time: 14:15										
Start Date:	2/19/2014		Completion Date: 2/19/2014											
MARRSIM Walkover Surve	ey (10'X10')			Monitoring Action levels			As	Pb						
		5.60	0	1	VIOITILOTTING ACTION TEVELS	11.610	2.4	400						

Start Date:		2/19/2014			Complet	ion Date:	2/19/2014					
MARRSIM Wal	kover Survey (10	'X10')					Nonitoring Action levels	Rad (2X Bac	kground)		As	Pb
Range	4,160-5,820 cpm	١	Point	5,680) cpm	.,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 20g
1					10YR4/1	Wet		0.2	12	243	4,725	
3	5	4										
4					10YR4/2	Moist	Well Graded Fine Sands, Some Silt, Some Gravel.	0.0	14	171	5,045	
5					0.0 6 55	57	4,780	f = 1				
6				SW		Dry						
7								0.0	< 3	97	5,010	
8	5	3.5										
9					10YR6/4			0.0	< 3	12	4,760	
10						Wet	Well Graded Medium Sands, Some					
11	2	2					Silt, Some Gravel.	0.0	9	102	4,450	
12	_	-	2		10YR5/1						.,	

							SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-042			Instrument			Model Number				Seri	al Number
GEOLOGIST:		TF			PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°			SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push				Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston				Borehole Depth		10 feet					
Start Time:		10:00				Commpletion Ti	me:	10:40					
Start Date:		2/20/2014				Completion Date:		2/20/2014					
MARRSIM Wal	kover Survey (10	0'X10')						Monitoring Action levels	RAD (2X Bad	kground)	As		Pb
Range	2,23	35-3,520 cpm	Point		2,71	5 cpm	'	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphi	c Log	USCS Code	Soil	Moisture Soil Description PID Re		PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2 3	5	3				10YR3/2	Moist	Silty Sand, Rock	0.0	32	200 159	3,145 2,990	
5			_		SM				0.2	5	8	3,060	
7	5	3.5				10YR6/6		Fine-Medium Silty Sand with Pebbles	0.0	3.4	15.4	3,180	
9							Wet		0.0	4.9	5.8	3,020	

10YR2/1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-043		Instrument			Model Number				Seri	al Number
GEOLOGIST:		TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:35			Commpletion Ti	me:	11:00					
Start Date:		2/20/2014			Completion Date:		2/20/2014					
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Background)		As		Pb
Range	2,69	90-3,380cpm	Point	3,24	2 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2								0.0	7	111	3,030	
3	5	3						0.0	<3	93	2,835	
5			-	SM	10YR3/4	Moist	Fine Silty Sand with Gravel	0.0	<25	60	2,910	
7	5	4						0.5	22	409	3,080	
9												
10								0.0	13	88	2,980	
11	2	2		CIM	10VP2 /4	Wat	Fine Cand Peak	0.0	4.1	10	2140	
12	2	3		SW	10YR2/1	Wet	Fine Sand, Rock	0.0	4.1	18	3140	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-044		Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		11:10			Commpletion Ti	me:	11:35					
Start Date:		2/20/2014			Completion Date:		2/20/2014					
MARRSIM Wal	kover Survey (10)'X10')				Monitoring Action levels		RAD (2X Bad	RAD (2X Background)		As	Pb
Range	3,19	5-4,210 cpm	Point	3,50	2 cpm	,	World He Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	4		SM	10YR3/3		Brick, Fine-Medium Sandy Silt	0.8	8	82	3,155	
4	-	·				Moist		0.0	4.1	6.4	2,920	
5					10YR6/6			0.0	14.8	5.8	2,950	
6				SW			Fine-Medium Sand with Gravel					
7								0.5	14.1	10	3,305	
8	5	4	4									
9					10YR2/1	Wet		0.0	42.8	6.7	3,160	

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-045		Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		11:40			Commpletion Ti	me:	12:10					
Start Date:		2/20/2014			Completion Date	9:	2/20/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,16	5-4,080 cpm	Point	3,22	7 cpm	,,	Violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
0 1 2 3 4 5 5	5	3.5		SM	10YR3/3	Moist	Fine-Medium Sandy Silt with Gravel	0.0	4	82	3,145	
6			-					0.0	6	89	3,090	
7								0.5	8	81	3,160	
8	5	2			10YR3/2	Wet	Fine-Medium Sandy Silt with Pebbles		-	-	-,	
9					10.110/2		The state of the s	0.0	8.6	28	3,045	
10								5.5	0.0	20	3,0.0	

								SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-046				Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF				PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS				XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°				SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push					Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston					Borehole Depth:		10 feet					
Start Time:		12:30					Commpletion Ti	me:	13:00					
Start Date:		2/20/2014					Completion Date	9:	2/20/2014					
MARRSIM Wal	kover Survey (10	D'X10')							Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,16	50-4,220 cpm	Point			3,183	1 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Gra	aphic L	.og	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)					Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
2 3 4	5	4				SM		Moist		0.0	5 <5	69 321	3,085 3,115	
6			_			10000 (2	10YR3/3		Fine-Medium Sandy Silt with Gravel, Some Rock	0.0	7	110	3,000	
7						10YR2/2				0.5	<3	97	3,210	
9	5	4.5				10YR2/1		Wet		0.0	13	32	2,980	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-047		Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:30			Commpletion Ti	me:	13:55					
Start Date:		2/20/2014			Completion Date	e:	2/20/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,36	0-4,475 cpm	Point	3,906	6 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
0								0.0	<3	113	3,075	
2	5	4			10YR3/3							
3								0.0	9	139	3,135	
4						Moist	Fine-Medium Silty Sand with Gravel					
5			-					0.0	5	140	3,185	
6				SM								
7					10YR4/4			0.5	<4	195	3,040	
8	5	4.5			·						,	
9								0.0	7	128	3,120	
10						Wet	Sing Madisus City Conducted St. 1	5.0	,	120	5,120	
11	2	4			10YR2/1	wet	Fine-Medium Silty Sand with Pebbles	0.0	7.3	5.5	3165	
12	2	4			101K2/1			0.0	7.3	5.5	2102	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	CC-C-048		Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		8:25			Commpletion Ti	me:	8:55					
Start Date:		2/21/2014			Completion Date	e:	2/21/2014					
MARRSIM Wal	kover Survey (10)'X10')	_				Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,16	60-3,525 cpm	Point	2,58	7 cpm		Normal Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	4			10YR5/6			0.0	<1.7	12	2,750	
4					10YR4/1			0.0	<3	90	2,925	
6			_	SM	10114/1	Moist	Fine-Medium Silty Sand with Gravel	0.0	4	68	2,795	
7	5	4						0.5	6	279	2,780	
9	3	4										
10					10YR2/1			0.0	15	194	2,820	
11												

Fine-Medium Silty Sand with Pebbles

0.0

Wet

2

12

2.5

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-049		Instrument			Model Number				Seri	al Number
GEOLOGIST:		TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		9:50			Commpletion Ti	me:	10:20					
Start Date:		2/21/2014			Completion Dat	e:	2/21/2014					
MARRSIM Wal	kover Survey (10	0'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	2,52	25-3,195 cpm	Point	3,55	7 cpm		violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
2	. 5	4.5		SM	10YR3/4	Moist	Fine-Medium Silty Sand with Gravel	0.0	36	211	2,670	
4				SIVI		WOIST	rine-wedulii Sitty Saliu With Gravel	0.0	5	113	2,625	
6			_		- 10YR3/1			0.0	<1.8	32	2,835	
7	_	45		SW	2,2		Fine Sand with Gravel	0.5	<1.7	12.6	2,910	
9	5	4.5				Wet						
				SM	10YR2/1		Fine Silty Sand with Gravel	0.0	3.1	19.9	2,830	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	CC-C-050		Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	od:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		9:25			Commpletion Tir	me:	9:50					
Start Date:		2/21/2014			Completion Date):	2/21/2014					
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,21	0-4,090 cpm	Point	3,55	4 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	3		SM	10YR4/2		Fine-Medium Silty Sand with Gravel	0.0	10	211	2,710	
4	-				10YR5/4	Moist		0.0	<2	15	2,660	
5			_	SW			Fine-Medium Sand with Gravel	0.0	<1.8	10	2,480	
6												
7	-				10YR5/6			0.5	3.2	14	2,550	
8	5	4.5										
9	-			SM	10YR2/1	Wet	Fine Silty Sand with Gravel	0.0	9	34	2,675	

									SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-051					Instrument			Model Number				Seria	al Number
GEOLOGIST:		TF					PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS					XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Mist 37°					SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push						Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston						Borehole Depth	:	10 feet					
Start Time:		10:50						Commpletion Ti	me:	11:40					
Start Date:		2/21/2014						Completion Date	e:	2/21/2014					
MARRSIM Wal	kover Survey (10)'X10')								Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,04	10-4,260 cpm	Po	oint			3,38	9 cpm	, i	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery		Graph	nic Lo	og	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)						Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2	. 5	4						10YR4/3			0.0	5.2	29	2,590	
4								10YR2/2	Moist	Medium Silty Sand with Gravel	0.0	15	359	2,680	
5							SM	1011/2/2			0.0	15	304	2,570	
7		4									0.5	24	264	2,620	
9								10YR2/1	Wet	Fine-Medium Silty Sand, Trace Rock	0.0	8	149	2,530	

							SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-C-052			Instrument			Model Number				Seri	al Number
GEOLOGIST:		TF			PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Mist 37°			SCALER:	Ludlum 2221				172013/PR1	56395	·	
Orilling Metho	d:	Direct Push				Borehole Diame	ter:	2 inch		_	_		
Sampling Meth	nod:	Closed Piston				Borehole Depth:		10 feet					
Start Time:		11:50			`	Commpletion Ti	me:	12:20					
tart Date:		2/21/2014				Completion Date	e:	2/21/2014					
/ARRSIM Wal	kover Survey (10	0'X10')	_					Monitoring Action levels	RAD (2X Bad			As	Pb
Range	3,13	30-3,560 cpm	Point		3,560) cpm	,	Total and Action Icecia	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic	Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)		111111111111		Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	_
1 2	5	5				10YR4/2			0.0	67	26	2,560	
3						10YR3/2	Dry		0.0	20	73	2,450	
5			_		SM			Fine-Medium Silty Sand with Gravel, Trace Rock	0.0	10	144	2,400	
6						10YR5/1							
7 8	. 5	5					Moist		0.5	15	75	2,390	
9													

10YR2/1

10

Wet

2,465

58

24

0.0

						SOI	L BORING LOG SHEET						
BOREHOLE NU	JMBER:	CC-GTBH-001		Instrument			Model Number				Seri	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - PO	6M7600			110-009576				
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Sunny 8°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	od:	Direct Push			Borehole Diamet	er:	2 inch						
Sampling Met	hod:	Closed Piston			Borehole Depth:		12 feet						
Start Time:		11:45			Commpletion Tir	ne:	12:05						
Start Date:		3/4/2014			Completion Date	:	3/4/2014						
MARRSIM Wa	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As		Pb
Range	5,2	00-6,550 cpm	Point	6,16	7 cpm		Monitoring Action levels	14,648	cpm		24 ppm		400 ppm
Donth	Advance	Doggwani	Craphic Log	LICCC Code	Coil	Maistura	Coil Description	DID Booding	۸۵	Dh	BAD		

Start Date:		3/4/2014			Completion Date	1	3/4/2014	RAD (2X Bac	-karound)		As	Pb
	lkover Survey (10		5	6.46			Monitoring Action levels	14,648			24 ppm	400 ppm
Range		0-6,550 cpm	Point		7 cpm				·		1	400 ppiii
Depth	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft) 0	(it)	(11)			10YR4/1	Content		(ppm) 0.0	(ppm) 21	(ppm)	(cpm) 4,485	
2	5	5		SM	101114/1		Silty Sand with Gravel	0.0	21	133	4,463	
3					10YR4/2			0.0	<31	57	4,360	
4						Dry						
6				CL	10YR4/6		Sandy Clay with Trace Gravel	0.0	<9	42	5,110	
7								0.0	<42	221	4,430	
8	5	5										
9				SW	10YR3/4		Well Graded Fine-Medium Sand with Little Gravel	0.0	33	383	4,500	
10			-									
11	2	2.5				Moist		0.0	<20	196	4,465	
12												

				SOI	L BORING LOG SHEET			
BOREHOLE NUMBER:	CC-GTBH-002	Instrument			Model Number		Serial Number	-
GEOLOGIST:	AR	PID:	RAE Systems - Po	GM7600		110-0095	76	
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	Inc DS-4000		500301		
WEATHER:	Sunny 8°	SCALER:	Ludlum 2221			172013/F	R156395	
Drilling Method:	Direct Push		Borehole Diamet	ter:	2 inch			
Sampling Method:	Closed Piston		Borehole Depth:	:	12 feet			
Start Time:	12:10		Commpletion Tir	me:	12:25			
Start Date:	3/4/2014		Completion Date	e:	3/4/2014			
MARRSIM Walkover Survey	(10'X10')				Monitoring Action levels	RAD (2X Background)	As	Pb

MARRSIM Wal	lkover Survey (10)'X10')			Completion Date		3/4/2014	RAD (2X Bac	kground)		As	Pb
Range		0-5,250 cpm	Point	4,412	2 cpm	'	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0					10YR4/1			0.0	<40	131	4,170	
2	5	4										
3				SM	10YR3/2		Silty Sand with Gravel	0.0	<20	67	4,280	
5						Dry		0.0	<17	204	3,890	
6	_							0.0		204	3,030	
7	5	4			10YR4/1			0.0	<12	86	3,960	
9				SW	10YR3/4		Well Graded Fine-Medium Sand with	0.0	<28	67	4,100	
10			_				Trace Gravel				,	
11	- 2	2		SW-SM	10YR4/4	Moist	Well Graded Medium Sand with Silt and Gravel	0.0	<12	79	4,130	
12							and cross.					

							SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	CC-GTBH-003			Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR			PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 8°			SCALER:	Ludlum 2221				172013/PR1	56395	·	
Drilling Metho	d:	Direct Push				Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston				Borehole Depth:		10 feet					
Start Time:		12:30				Commpletion Ti	me:	12:55					
Start Date:		3/4/2014				Completion Date	e:	3/4/2014					
MARRSIM Wal	kover Survey (10	D'X10')						Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,15	50-5,260 cpm	Point		4,583	1 cpm	ı,	vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graph	nic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2 3	5	3				10YR4/1			0.0	<23	81	4,040	
5					SM	10YR3/3	Dry	Grass, Silty Sand with Gravel	0.0	<23	103	4,000	
7 8	5	5				10YR4/1			0.0	<25	124	4,210	
9									0.0	<49	101	4,150	

10YR4/2

				SOIL BORING LOG SHEET						
BOREHOLE NUMBER:	CC-GTBH-004	Instrument		Model Number			Serial Num	nber		
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600			110-009576				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS	5-4000		500301				
WEATHER:	Sunny 8°	SCALER:	Ludlum 2221			172013/PR156395				
Drilling Method:	Direct Push		Borehole Diameter:	2 inch						
Sampling Method:	Closed Piston		Borehole Depth:	12 feet						
Start Time:	13:05		Commpletion Time:	13:45						
Start Date:	3/4/2014		Completion Date:	3/4/2014						
					PAD /2V Pa	ckaround)	Λc	Db		

Start Date:		3/4/2014			Completion Date	2:	3/4/2014					
MARRSIM Wal	kover Survey (10	'X10')				,	Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	3,39	0-4,730 cpm	Point	4,648	3 срт	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0		V 3		SM	10YR3/1	Moist	Grass, Silty Sand with Gravel	WF	WF /	VPF /	(SF /	
1								0.0	<22	<24	4,450	
2	5	4										
3						Dry		0.0	<13	<13	4,530	
4				SW	10YR4/6		Well Graded Fine-Medium Sand, Trace Gravel					
5			_				Trace Gravei	0.0	<18	<22	4,290	
6												
7								0.0	66	380	4,310	
8	5	3.5					Asphalt, Wood, Sandy Clay with Little					
9					10YR4/1	Wet	Gravel	0.0	21	86	4,240	
10				CL			Clay					
11	2	4			10YR6/6		Sandy Clay with Little Gravel	0.0	<9	30	4,170	
12							Clay					

						SOI	L BORING LOG SHEET							
BOREHOLE NU	JMBER:	GL-GTBH-001		Instrument			Model Number				Seri	al Number		
GEOLOGIST:		AR/JE		PID:	RAE Systems - P	GM7600			110-009576					
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000	<u> </u>		500301	· · · · · · ·				
WEATHER:		Cloudy 30°		SCALER:	Ludlum 2221				172013/PR1	56395				
Drilling Metho	ıd:	Direct Push			Borehole Diame	eter:	2 inch							
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	12 feet							
Start Time:		8:20			Commpletion Ti	me:	8:55							
Start Date:		3/5/2014			Completion Date	e:	3/5/2014							
MARRSIM Wal	lkover Survey (10)'X10')	1			Ι,	Monitoring Action levels	RAD (2X Bad			As	Pb		
Range	4,88	0-5,820 cpm	Point	5,189	9 cpm	·		14,648	cpm		24 ppm	400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)			
1 2	5	4.5		SW-SM	10YR2/2	Dry	Grass, Well Graded Fine Sand with Silt and Trace Pebbles	0.0	8.2	43	4,970			
3		4.5	10YR5/4	0.0	<4.1	11	5,030							
5					-		10YR5/2	Moist		0.0	<5.5	20	5,130	
7					SW			Well Graded Fine Sand with Trace Pebbles	0.0	<4.3	12	5,000		
8	5		4	10YR6/4										
10								0.0	<4.1	12	4,890			
10							Wet							

10YR5/4

4,920

<4.1 12

0.0

11

						SOIL	BORING LOG SHEET					
BOREHOLE NU	MBER:	GL-GTBH-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/JE		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 35°		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:05			Commpletion Ti	me:	10:45					
Start Date:		3/5/2014			Completion Date	e:	3/5/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,69	0-5,140 cpm	Point	5,03	7 cpm	19	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	. note 20g
1 2		4		SW			Grass, Well Graded Fine Sand	0.0	<3.9	8.7	4,960	
3					10YR5/4	Moist		0.0	<3.7	6.7	4,820	
5			-	SM			Well Graded Silty Sand	0.0	<4.7	16	4,750	
7	5	3.5			10YR5/1			0.0	<3.9	6.8	4,880	
9				CL			Sandy Clay with Pebbles	0.0	<4.4	16	4,810	
11	2	2			10YR8/1	Wet		0.0	<5	27	4,630	97

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GTBH-001		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR/JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 8°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho		Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		12 feet					
Start Time:		9:10			Commpletion Ti	me:	9:45					
Start Date:	•	3/4/2014			Completion Date	e:	3/4/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,78	30-6,310 cpm	Point	5,91	3 cpm	ľ	wiorintoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0 1 2 3 4	5	2.5		SM	10YR2/1	Moist	Silty Sand with Gravel	0.0	15	27 <53	5,980 6,120	
5			_		10YR3/1			0.0	<31	34	6,050	
									<u> </u>	<u> </u>		
7								0.0	<24	40	6,090	
8	5	3			10YR3/3						5,555	
9				SW-SM	10YR5/6	Wet	Well Graded Fine-Medium Sand with Silt and Gravel	0.0	<13	<14	6,140	
10												

Well Graded Medium Sand with

Gravel

0.0

<8

14

5,970

11

12

2

2.5

SW

10YR4/6

·	Borehole Diame Borehole Depth: Commpletion Tir	Inc DS-4000 ter:	Model Number 2 inch 10 feet (below concrete)		110-009576 500301 172013/PR1		Seria	al Number				
HEALTH TECHNICIAN: MS XRF: WEATHER: Cloudy 26° SCALER: Drilling Method: Air Hammer Sampling Method: Closed Piston Start Time: 10:00 Start Date: 3/5/2014	Innov-X Systems Ludlum 2221 Borehole Diame Borehole Depth: Commpletion Tir	Inc DS-4000 ter:			500301							
WEATHER: Cloudy 26° SCALER: Drilling Method: Air Hammer Sampling Method: Closed Piston Start Time: 10:00 Start Date: 3/5/2014	Borehole Diame Borehole Depth: Commpletion Tir	ter:					Innov-X Systems Inc DS-4000 500301					
Drilling Method: Air Hammer Sampling Method: Closed Piston Start Time: 10:00 Start Date: 3/5/2014	Borehole Diame Borehole Depth: Commpletion Ti				172013/PR1	n 2221 172013/PR156395						
Sampling Method: Closed Piston Start Time: 10:00 Start Date: 3/5/2014	Borehole Depth: Commpletion Ti			Borehole Diameter: 2 inch								
Start Time: 10:00 Start Date: 3/5/2014	Commpletion Ti		10 feet (below concrete)									
Start Date: 3/5/2014	1	me:										
	Completion Date		11:10									
	Completion Date:		3/5/2014									
MARRSIM Walkover Survey (10'X10')			Agnitoring Action lovels	RAD (2X Bad	kground)		As	Pb				
Range 5,640-5,680 cpm Point 6,082	2 cpm	ľ	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm				
Depth Advance Recovery Graphic Log USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhata Laa				
(ft) (ft) (ft)	Color	Content	·	(ppm)	(ppm)	(ppm)	(cpm)	Photo Log				
0 1 2 5 2 SM	10YR4/2	Wet	· Concrete, Silty Sand with Gravel	0.0	<29 <9	38 <10	5,150					
5 GW		Moist	Staining, Gravelly Sand, Gasoline Odor	0.0	<30	49	5,230					
7 SM	10YR4/3		Silty Sand wit hGravel	0.0	<6	20	5,170					
8 5 5 CL			Sandy Clay with Trace Gravel				-, -					
9	- 10YR4/1	Wet	Well Graded Fine-Medium Sand with	0.0	<5.4	11	5,110					

Silt and Gravel

						SOI	L BORING LOG SHEET						
BOREHOLE NU	IMBER:	LT-GTBH-003		Instrument			Model Number				Seri	al Number	
GEOLOGIST:		AR/JE		PID:	RAE Systems - P	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Cloudy 26°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch						
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet (below concrete)						
Start Time:		11:20			Commpletion Ti	me:	12:30						
Start Date:		3/5/2014			Completion Date	2:	3/5/2014						
MARRSIM Wal	lkover Survey (1	0'X10')					A CONTRACTOR A CON	RAD (2X Bad	ckground)		As	Pb	
Range		30-5,030 cpm	Point	5,07	1 cpm	"	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	SI - I - I	
(ft)	(ft)	(ft)			Color	Content	,	(ppm)	(ppm)	(ppm)	(cpm)	Photo Log	
1 2	5	2			10YR2/1		Well Graded Fine Sand with Trace Gravel	0.1	23	40	5,360		
4					SW	10YR6/6	Moist		0.0	<5.2	13.2	5,180	
5			_		10YR3/1		Well Graded Fine Sand with Trace Gravel	0.0	<5.2	9.4	4,990		
7												17	
8	5	5			10YR6/1		Well Graded Fine-Medium Sand	0.0	<8	77	5,450		
9				CL	10YR2/1	Wet	Sandy Clay	0.0	<9	37	5,140		

						SOIL	BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-GTBH-004		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR/JE		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Cloudy 26°		SCALER:	Ludlum 2221				172013/PR15	56395			
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet						
Start Time:		11:00			Commpletion Ti	me:	12:00						
Start Date:		3/5/2014			Completion Date	2:	3/5/2014						
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb	
Range	5,78	80-6,310 cpm	Point	5,91	3 cpm	.,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log	
1 2	5	4.5			10YR4/4		Well Graded Fine-Coarse Sand	0.0	<16	55	5,940		
4			-		SW	10YR4/2	Moist		0.0	<15	40	6,015	
5						40/05/4		Well Graded Fine Sand	0.0	<8	<9	5,890	
7	5	4			SW-SM	10YR6/4		Well Graded Fine-Coarse Sand with Silt, Some Pebbles, Trace Brick	0.0	<8	<9	6,125	
9						10YR4/1			0.0	<6	7	6,070	
11	2	2		SW	10YR4/2	Wet	Well Graded Fine-Coarse Sand	0.0	<7	12.3	6,100		

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-001		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	ICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 38°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:01			Commpletion Ti	me:	10:35					
Start Date:		1/13/2014			Completion Date	e:	1/13/2014					
MARRSIM Wall	cover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	6,30	0-8,500 cpm	Point	7,292	2 cpm	ľ	World Hig Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
0					10YR6/6			0.0	< 2	6	8300	
2	5	2.5										
3					10YR5/8			0.0	4	33	8450	
4					10YR4/1							the state of the s
5			-					0.0	< 3	9	8400	
6				SM		Wet	Silty Sand, Some Gravel					
7								0.0	< 1.5	9	8150	
8	5	2			10YR5/1				-	-		C C
9								0.0	2.0	10	9000	
10								0.0	3.9	10	8000	
11	2	2						0.0	< 1.3	6.5	7850	
	-							0.0	` 1.5	0.5	, 550	

10YR7/8

				SO	IL BORING LOG SHEET					
BOREHOLE NUMBER:	LT-XC-002	Instrument			Model Number		Serial Number	r		
GEOLOGIST:	AR	PID:	RAE Systems - P	GM7600		110-0095	76			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X System:	Inc DS-4000		500301				
WEATHER:	Sunny 38°	SCALER:	Ludlum 2221			172013/PR156395				
Drilling Method:	Direct Push		Borehole Diame	ter:	2 inch					
Sampling Method:	Closed Piston		Borehole Depth: 10 feet							
Start Time:	Start Time: 11:08 Commpletion Time: 11:35									
Start Date:	1/13/2014		Completion Dat	e:	1/13/2014					
MARRSIM Walkover Survey	v (10'X10')					RAD (2X Background)	As	Pb		

Start Date:		1/13/2014			Completion Date	T .	1/13/2014			ī			
MARRSIM Wal	lkover Survey (10)'X10')	T	1			Monitoring Action levels	RAD (2X Bac			As	Pb	
Range	5,10	0-6,400 cpm	Point	5,865	5 cpm			14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		
1					10YR4/6			0.0	3.4	8.2	7600		
2	5	3		SW-SM			Medium Sands, Some Fines, Some Gravel						
3		3			10YR4/4			0.0	< 2.0	18	4750		
4	-												
5					10YR6/6	Wet		0.0	< 1.5	12.9	7150		
6									-	-			
7				SW	10YR4/6		Medium Sands, Some Gravel	0.0	< 1.4	8.6	6800		
8	5	4						0.0	1.17	0.0	0000		
9					10YR6/6			0.0	-10	19	7980	50	
10				CL	10YR7/2		Clay	0.0	< 1.8	19	/980		

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-003		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 38°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		11:46			Commpletion Ti	me:	12:05					
Start Date:		1/13/2014			Completion Date	e:	1/13/2014					
MARRSIM Wall	kover Survey (10	D'X10')				,	Monitoring Action levels	RAD (2X Background)			As	Pb
Range	5,20	00-6,700 cpm	700 cpm Point 5, Recovery Graphic Log USCS Code				nonnearing rection levels	14,648	cpm	24 ppm 400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	oto 20g
1 2	5	3.5			10YR5/6			0.0	< 1.8	13	7100	
3		3.3		sw	10YR7/8	Moist	Medium-Course Sands, Some Gravel	0.0	<3	< 4	7380	
5				Sw			Medium-Course Salius, Some Graver	0.0	1.0	< 1.3	6200	
6												
7					10YR6/8			0.0	<1	4.5	6000	

Wet

CL

0.0

Clay

< 1.7

6400

< 2

8

9

10

5

3.5

			SOI	IL BORING LOG SHEET					
BOREHOLE NUMBER:	LT-XC-004	Instrument		Model Number		Serial Number			
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		11	.0-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		50	0301			
WEATHER:	Sunny 38°	SCALER:	Ludlum 2221		17	2013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter:	2 inch					
Sampling Method:	Closed Piston		Borehole Depth:	12 feet					
Start Time:	13:50		Commpletion Time:	14:10					
Start Date:	1/13/2014		Completion Date:	1/13/2014	/13/2014				

Start Date:		1/13/2014			Completion Date	I	1/13/2014	DAD (2)(D	1	T		DI.
	kover Survey (10					1	Monitoring Action levels	RAD (2X Bad			As	Pb
Range		0-7,400 cpm	Point	6,840			1	14,648			24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2				CL	10YR4/4		Clay	0.0	< 2	16	5800	
3	5	5		O.	10YR5/3							
4					10YR4/3			0.0	15	11	6500	
5				SW-SM	10YR3/4		Medium Sands with Silt, Trace Gravel	0.0	8	21	5900	
6					10YR5/6	Dry						
7								0.0	< 3	22	6300	
8	5	5			10YR4/4							
9				CL			Clay	0.0	3	19	6800	
10												
11	2	2			10YR3/3			0.0	6	10	6400	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-XC-005		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 3°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		10:00			Commpletion Ti	me:	10:40					
Start Date:		1/23/2014			Completion Date	e:	1/23/2014					
MARRSIM Wal	lkover Survey (1	D'X10')					Andreas Antino Involu	RAD (2X Ba	ckground)		As	Pb
Range	5,92	20-6,610 cpm	Point	6,36	3 cpm		Monitoring Action levels	14,648	3 cpm 24 ppm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhata La
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2	- 5	3		SW	10YR4/4 10YR4/1	Moist	Well Graded Fine Sand with Little Gravel	0.0	11	33	6,250 7,180	
5				SW	10YR4/3		Well Graded Medium Sand with Gravel	0.0	3.1	7.7	7,000	
7	5	4.5		SW-SM			Well Graded Medium Sand with Silt and Gravel	0.0	4	8.3	6,950	
9					10YR4/1		et Silty Sand		0 142 12	12	7,000	
10				SW			Well Graded Medium Sand with Gravel	0.0	14.3	13	7,090	

			SO	IL BORING LOG SHEET					
BOREHOLE NUMBER:	LT-XC-006	Instrument		Model Number		Serial Number			
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		110	-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500	301			
WEATHER:	Sunny 3°	SCALER:	Ludlum 2221		172	013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter:	2 inch					
Sampling Method:	Closed Piston		Borehole Depth:	12 feet					
Start Time:	10:48		Commpletion Time:	11:10					
Start Date:	1/23/2014		Completion Date:	1/23/2014					

Start Date:		1/23/2014			Completion Date	<u>. </u>	1/23/2014	RAD (2X Bac			As	Pb
	kover Survey (10		1	ı		N	Monitoring Action levels					
Range		0-6,730 cpm	Point	6,485				14,648			24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
0												
1								0.0	14	33	6,250	
2	5	3.5		SM	10YR4/3		Silty Sand with Gravel					
3						Moist		0.0	6	24	6,390	
4												
5			_		10YR4/4			0.0	9	11	6,490	
6												
7								0.0	7	5	6,350	
8	5	4		SW	10YR3/3		Well Graded Medium Sand with				.,,	
9				3**	100,3	Wet	Gravel	0.0	6	12	6,780	
10						wet		0.0	U U	12	0,760	
11	2	2.5			10YR4/4			0.0	5	<3	6810	
12	2	2.5			10184/4			0.0	5	<5	9810	

			SOII	L BORING LOG SHEET	
BOREHOLE NUMBER:	LT-XC-007	Instrument		Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		110-009576
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301
WEATHER:	Sunny 11°	SCALER:	Ludlum 2221		172013/PR156395
Drilling Method:	Direct Push		Borehole Diameter:	2 inch	
Sampling Method:	Closed Piston		Borehole Depth:	12 feet	
Start Time:	1:20		Commpletion Time:	11:55	
Start Date:	1/24/2014		Completion Date:	1/24/2014	

Start Date:	kover Survey (10	1/24/2014			Completion Dat		1/24/2014	RAD (2X Bac	kground)		As	Pb
Range		0-7,150 cpm	Point	6 950) cpm	1	Monitoring Action levels	14,648			24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0	(it)	(10)			10YR4/3	content		(ррш)	(ррш)	(ррш)	(сріп)	
1					10YR4/1			0.0	17	23	6,150	1
2	5	4		SM	,		Silty Sand with Gravel					
3					10YR4/6	Moist		0.0	13	17	5,980	
4												
5					10YR5/1		Silty Sand	0.0	5	23	5,970	
6				SW	10YR4/6		Well Graded Medium Sand with Little Gravel					
7					10YR5/1		Well Graded Coarse Sand with Gravel	0.0	33	36	6,200	
8	5	4										
9				sc	10YR3/2	Wet	Clayey Sand	0.0	5	12	6,180	
10												
11	2	2		CL	10YR4/1		Clay	0.0	3.6	17	5820	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-008		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 3°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		12:20			Commpletion Ti	me:	12:50					
Start Date:		1/23/2014			Completion Date	e:	1/23/2014					
MARRSIM Wall	kover Survey (10	D'X10')				,	Monitoring Action levels		ckground)		As	Pb
Range	5,20	00-6,200 cpm	Point	5,79	3 cpm	'	wormoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	FIIOLO LOG
1 2	5	4		SM	10YR3/1 10YR3/3	Moist	Wood, Grass, Silty Sand with Gravel	0.0	3.3	17	5,940	
4					10YR4/4	Wet	Well Graded, Medium Sand with Gravel	0.0	<2	9	6,090	
			-		10184/4	Moist		0.0	<5	9	6,130	
6				SW								
7					10YR4/3		White rock, Well Graded Medium Sand with Gravel	0.0	<3	8.5	5,900	
8	5	5				Wet	Sand With Graver					
9					10YR4/4			0.0	<2	8.7	5,860	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-009		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 3°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:20			Commpletion Ti	me:	14:00					
Start Date:		1/23/2014			Completion Date	2:	1/23/2014					
MARRSIM Wal	kover Survey (10)'X10')				Monitoring Action levels		RAD (2X Bad	ckground)		As	Pb
Range	6,33	0-7,410 cpm	Point	7,45	3 cpm	om		14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	. 5	4		SM	10YR4/6		Silty Sand	0.0	7	12	6,100	
4						Moist		0.0	<3	15	6,250	
					10YR5/4			0.0	6	9	6,330	
6					101K5/4			0.0	6	9	6,330	
7				SW-SM			Well Graded Medium Sand with Silt	0.0	2	23	6,210	4-10
8	5	3			10YR4/2		and Gravel			-	-, -	
9					20.117/2			0.0	7	16	6,040	

Well Graded Medium Sand with

Gravel

7

5960

2.6

0.0

SW

10YR3/2

Wet

10

11

12

						SO	IL BORING LOG SHEET								
BOREHOLE NU	MBER:	LT-XC-010		Instrument			Model Number				Seri	al Number			
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576						
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301						
WEATHER:		Sunny 9°		SCALER:	ALER: Ludlum 2221				172013/PR156395						
Drilling Metho	d:	Direct Push		Borehole Diamete			2 inch								
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet	12 feet							
Start Time:		8:00			Commpletion Tir	ne:	9:30								
Start Date:		1/24/2014			Completion Date: 1/24/2014										
MARRSIM Wal	Walkover Survey (10'X10')					RAD (2X B			RAD (2X Background)		3ackground)		As		Pb
Range	6,050-6,680 cpm Point 6,371 cpm					Monitoring Action levels 14,64				24 ppm		400 ppm			
·					5,57 2 65111										

Start Date:		1/24/2014			Completion Date	e:	1/24/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac	- '		As	Pb
Range	6,05	0-6,680 cpm	Point	6,371	L cpm	,	noniconing rection levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2				SM	10YR4/3	Dry	Silty Sand with Gravel	0.0	10	16	6,110	
3	5	5						0.0	6.7	18.5	6,340	
5				SW-SM	10YR5/3		Well Graded Medium Sand with Silt	0.0	<8	26	6,290	
6												
7						Moist		0.0	<2	10	5,980	
8	5	4					Well Graded Medium Sand with					
9				SW	10YR5/2		Gravel	0.0	2.5	11	6,190	
10				300	1011/2/2			0.0	2.5	11	0,190	
11	2	3			10YR4/6	Wet	Wel Graded Coarse Sand with Gravel	0.0	<3	11	6300	
12	-	3			101114/0	***************************************	The States Course Sails With Glaver	0.0	,,	11	0300	

						SOII	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-XC-011		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 9°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:45			Commpletion Ti	me:	10:40					
Start Date:		1/24/2014			Completion Date	e:	1/24/2014					
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	6,73	0-7,150 cpm	Point	6,39	1 cpm	יו	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	5	3		SM	10YR5/4	Dry	Silty Sand with Gravel	0.0	9.3	16	7,140	
3				CL	10YR4/3		Clay	0.0	28	46	7,255	
5					10YR4/2			0.0	<5	25	7,020	
6				ML			Silt with Gravel					* 17
7						Moist		0.0	<4	24	7,080	
8	5	5										
9				SW-SM	10YR5/1		Well Graded Medium Sand with Silt	0.0	19	28	6,900	
10					-,		and Gravel	-	-	-	,	
11	2	3		CL		Wet	Clay	0.0	<10	23	6810	
12	1				1							

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-012		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 9°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		10:50			Commpletion Ti	me:	11:25					
Start Date:		1/24/2014			Completion Date	e:	1/24/2014					
MARRSIM Wal	kover Survey (1)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,14	0-5,660 cpm	Point	4,62	4 cpm	."	World The Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2	5	4		SM	10YR4/4	Moist	Wood, Rock, Silty Sand with Gravel	0.0	4	13	6,690	
3	5	4				Dry		0.0	4	19	6,730	
6			_	SW-SM	10YR4/3		Well Graded Medium Sand with Silt and Gravel	0.0	2.3	16	6,540	
7	5	4				Moist		0.0	<4	23	6,410	
9												

6,590

11

0.0

Silt

26

10YR3/3

ML

10

Wet

						SOI	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-013		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		9:15			Commpletion Ti	me:	10:00					
Start Date:		2/6/2014			Completion Date	e:	2/6/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,15	50-5,180 cpm	Point	4,349	9 cpm	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	4			10YR5/4	Moist	Well Graded Medium Sand with Gravel	0.0	<1.6	8.9	3,975	
4					10YR5/3			0.0	9.6	15	3,590	
5				SW	10YR3/3			0.0	7	2.5	4,650	
6												
7						Wet	Well Graded Fine-Medium Sand with	0.0	3.6	6.5	4,040	
8	5	2.5			10YR5/8		Gravel				,	
9					10165/8			0.0	<3	5.1	4,360	
10								0.0	?	J.1	4,300	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-014		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		10:00			Commpletion Ti	ime:	10:45					
Start Date:		2/6/2014			Completion Dat	e:	2/6/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	4,15	60-5,180 cpm	Point	4,3	49 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Lo	g USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
2 3	5	3		SM	10YR3/3 10YR4/1	Dry	Concrete, Silty Sand with Gravel	0.0	17	24	4,390 4,010	
5			_		10YR3/1	Moist		0.0	30	52	4,715	
7				SW-SM			Well Graded Fine Sand with Silt	0.0	32	32	4,700	
8	5	5		SM	10YR2/1	Wet	Silty Sand with Gravel	0.0	52	52	4,700	
9				3101		wet	Sity Sand With Graver	0.0	<1.4	6.7	4,280	

Well Graded Medium Sand with Silt

and Gravel

SW-SM

10YR5/1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-XC-015		Instrument:			Model Number				Seria	al Number
GEOLOGIST:				PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:				Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Metl	hod:	Closed Piston			Borehol	e Depth:	10 Feet					
Start Time:		10:50			Complet	ion Time:	11:20					
Start Date:		2/7/2014			Complet	ion Date:	2/7/2014					
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	Rad (2X Bad	kground)		As	Pb
Range	4,48	80-5,190 cpm	Point	4,87	2 cpm	ľ	worldowing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	4			10YR3/3		Well Graded Fine Sands, Some Gravel.	0.0	13	55	4,620	
3		4				Dry	Well Graded Fine Sands.	0.0	6	67	4,730	
5			_	SW	10YR2/2		Well Graded Fine Sands, Some Silt.	0.0	36	76	4,690	
7 8	5	3			10YR3/3	Moist	Well Graded Fine Sands, Some Silt, Wood.	0.0	< 20	126	4,670	
9	-											

Well Graded Medium to Fine Sands,

Some Silt, Some Gravel.

0.0

12

10YR2/1

10

Wet

4,760

						SOIL	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-016		Instrument:			Model Number				Seria	al Number
GEOLOGIST:				PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:				Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Meth		Closed Piston			Borehol	e Depth:	12 Feet					
Start Time:		10:50			Complet	ion Time:	11:20					
Start Date:		2/7/2014			Complet	ion Date:	2/7/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac	kground)		As	Pb
Range	4,67	0-5,190 cpm	Point	4,899	Э срт	IV.	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
0						Moist		0.0	4	44	4,740	
2	5	4			10YR4/3		Well Graded Fine Sands, Some Silt, Some Gravel.					
3								0.0	9	78	4,880	
4				SW		Dry					,,,,,	
5					10YR6/2		Well Graded Medium Sands, Brick.	0.0	< 2	31	4,640	
6								0.0	12	51	1,010	
7					10YR3/1		Well Graded Medium Sands, Some Silt, Some Gravel.	0.0	63	22	4,790	
8	5	5				Moist		0.0	03	22	4,730	
9				SM.	10/04/4		Cile. Cond. Cong. Con.	0.0	04	-12	4.610	
10				SM	10YR4/4		Silty Sand, Some Gravel.	0.0	84	< 3	4,610	
11	2	2		OL	10YR3/3	Wet	Well Graded Medium Sand, Some Gravel, Organic Material (Bog)	0.0	13	< 2	4,740	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-017		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 22°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		8:15			Commpletion Ti	me:	9:26					
Start Date:		2/10/2014			Completion Date	e:	2/10/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,78	0-4,320 cpm	Point	3,759	9 срт	ľ	worldowing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2					10YR5/8		Medium-Fine Sands, Gravel, Trace	0.0	6.8	17	3,960	
3	5	3.5		SW		Moist	Silt.	0.0	6	24	4,130	
5			-	300	10YR2/2			0.0	7	56	4,220	
В												
7	5	4.5			10YR2/1	Wet	Medium-Fine Sands, Some Gravel, trace Silt.	0.0	32	78	4,200	
٥	3	4.5										
9								0.0	52	41	4,305	
10				OL	10YR2/2	Moist	Fine Sands & Organic Material (Bog).				·	
11	2	2		SM	101112/2	Wet	Fine Sands & Silt.	0.0	10	10	2020	
12	2	2		SC	10YR4/1	Moist	Clayey Sand.	0.0	19	18	3920	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-018		Instrument			Model Number				Seria	al Number
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Fair 22°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	12 feet					
Start Time:		8:45			Commpletion Ti	me:	9:59					
Start Date:		2/10/2014			Completion Date	e:	2/10/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,63	30-4,390 cpm	Point	3,67	4 cpm	,	World Hevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1				SW	10YR4/3		Medium Fine Sands, trace Gravel, Some Silt.	0.0	8	28	3,960	
3	5	3.5			10YR5/4	Dry		0.0	10	52	4,050	
4							Concrete	0.0	10	52	4,030	
5					10YR5/4		Medium Sands, Gravel, trace Silt	0.0	8	< 5	3,870	
6											,	
7				SW				0.0	19	35	3,980	
8	5	2.5		344	10YR4/1	Wet	Medium-Fine Sands, Silt, Some Gravel.	0.0	15	33	3,300	
9								0.0	16	65	4,000	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-019		Instrument:			Model Number				Seri	al Number
GEOLOGIST:		TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Light Snow 30°F		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Metl	nod:	Closed Piston			Borehol	e Depth:	10 Feet					
Start Time:		9:30			Complet	ion Time:	10:00					
Start Date:		2/18/2014			Complet	ion Date:	2/18/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	Rad (2X Bad			As	Pb
Range	3,14	10-4,370 cpm	Point	3,13	3 cpm	ľ	worldowing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery				Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2		4					Medium to Fine Silty Sands, Some Brick.	0.0	<2	72	3,560	
3						Moist		0.0	5	56	3,720	
5				SM	10YR3/2		Medium to Fine Silty Sands.	0.0	< 2	30	3,345	
7	5	5					Medium to Fine Silty Sands, Some	0.9	< 2	44	3,380	
9		5					Brick and Cobble.					

Wet

10

3,610

24

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-020		Instrument			Model Number				Serial N	Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301	·		
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		9:10			Commpletion Ti	me:	11:20					
tart Date:		2/20/2014			Completion Date	2:	2/20/2014					
ARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,75	0-4,360 cpm	Point	4,12	9 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	r noto Log
0				SW	10YR2/1		Well Graded Medium Sand with Gravel					
1				SP	10YR6/1	Wet	Poorly Graded Coarse Sand and	0.0	<7	14	4,750	
2	5	3		55	10YR5/1		Pebbles					
3	3	3			10YR2/1			0.0	<19	<19	4,690	
4						Moist	Well Graded Medium Sand with	0.0	<19	<19	4,690	
5					10YR4/4		Gravel	0.0	5.2	9.7	5,010	
6				SW	10YR4/2			0.0	3.2	3.7	3,010	
7				344	101114/2			0.5	<85	<76	5,180	1
8	5	3.5			10YR3/2	Wet	Well Graded Medium Sand	5.5	.03	.,0	3,130	
9					101113/2			0.0	<53	<65	4,960	
10					10YR4/4		Silt	0.0	.33	103	4,500	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-021		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	5 feet					
Start Time:		12:45			Commpletion Ti	me:	14:15					
Start Date:		2/18/2014			Completion Date	e:	2/18/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	3,78	30-4,120 cpm	Point	3,82	0 cpm	ı,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery				Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2		Recovery Graphic Log			10YR4/1		Well graded medium sands, silt and	0.0	<3	153	3,085	
3	5	4		SW	10YR4/6	Wet	gravel.	0.0	< 10	110	3,360	
5					10YR5/3			0.0	< 9	149	3,545	100

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-XC-022		Instrument			Model Number				Seri	ial Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	5 feet					
Start Time:		10:40			Commpletion Ti	me:	12:00					
Start Date:		2/18/2014			Completion Date	e:	2/18/2014					
MARRSIM Wal	kover Survey (10)'X10')					Annihaning Antiqui laviale	RAD (2X Bad	kground)		As	Pb
Range	3,75	60-4,120 cpm	Point	4,04	0 cpm	· ·	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	covery Graphic Log USCS Code Soil				Soil Description	PID Reading	As	Pb	RAD	Dhata Lan
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2	5	4		SW	10YR5/2	Wet	Well graded medium sands, trace gravel.	0.0	<5	26	3,320	
4					10YR4/2		Well graded medium sands, gravel	0.0	3.7	10.3	3,465	
5				10YR4/6		and silt.	0.0	< 3	11	3,690		

						SOI	IL BORING LOG SHEET				
BOREHOLE NU	MBER:	LT-XC-023		Instrument:			Model Number			Serial Number	
GEOLOGIST:		AR/TF		PID:	RAE Systems - PO	GM7600		110-00	09576		
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000		50030	01		
WEATHER:		Cloudy 35°F	Scaler: Ludlum 2221 172013/PR156395								
Drilling Method	d:	Direct Push									
Sampling Meth	hod:	Closed Piston			Borehole	e Depth:	10 Feet				
Start Time:		10:35			Completi	ion Time:	11:05				
Start Date:		2/19/2014 Completion Date: 2/19/2014									
MARRSIM Wall	lkover Survey (10	0'X10')					Monitoring Action levels	Rad (2X Backgroun	nd)	As	Pb
Range	3,95	50-4,610 cpm	Point	4,14	8 cpm	'	Widilitoring Action levels	14,648 cpm		24 ppm	400 ppm

Start Date:		2/19/2014			Complet	tion Date:	2/19/2014					
MARRSIM Wal	lkover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac			As	Pb
Range	3,95	0-4,610 cpm	Point		3 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
0					10YR4/2			0.0	34	192	4,580	
2	5	4					Medium to Fine Silty Sand, Some Gravel.					
3	-				10YR6/1	Moist		0.1	7	7	3,970	
4	-											
5			_	SM	10YR4/6		Medium to Fine Silty Sands, Brick and Cobble.	0.1	27	23	4,360	
6	-											
7								0.4	32	7	4,490	
8	5	5			10YR5/8	Wet	Medium to Fine Silty Sand, Cobble.					
9					100,0		The string string, consider	0.2	35	12	5,050	
10								0.2	33		3,030	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-XC-024		Instrument:			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 38°		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Metl	hod:	Closed Piston			Borehol	e Depth:	10 Feet					
Start Time:		11:10			Complet	ion Time:	11:50					
Start Date:		2/19/2014			Complet	ion Date:	2/19/2014					
MARRSIM Wal	kover Survey (10	D'X10')				١,	Monitoring Action levels	Rad (2X Bac			As	Pb
Range	3,48	30-4,360 cpm	Point	Point 3,344 cpm Graphic Log USCS Code Soil Color				14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code		Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2		1.5			10YR4/1		Well Graded Fine Sands, Some Silt, Some Gravel.	0.0	44	69	4,605	
4	-			sw	10YR4/3	Moist		0.0	14	24	4,640	
6			_				Well Graded Medium Snads, Some Silt, Some Gravel.	0.0	15	22	4,610	
7	5	5			10YR3/4			0.0	< 8	17	4,580	
9						Wet						

Silty Sands, Some Gravel.

0.0

4,530

10YR3/3

			SOII	L BORING LOG SHEET				
BOREHOLE NUMBER:	LT-XC-025	Instrument:		Model Number	Serial Number			
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600		110-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301			
WEATHER:	Sunny 16°	Scaler:	Ludlum 2221		172013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch				
Sampling Method:	Closed Piston		Borehole Depth:	10 Feet				
Start Time:	11:25		Completion Time:	11:48				
Start Date:	2/27/2014		Completion Date:	2/27/2014				

MARRSIM Wal	lkover Survey (10	'X10')			<u> </u>		2/2//2014	Rad (2X Bac	kground)		As	Pb
Range		0-5,800 cpm	Point	4,760) cpm	1	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advanced (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1 2						Dry	Brick, Wood, Well Graded Medium Sand with Silt and Gravel.	0.0	16	74	4,990	
3	5	2		SW-SM	10YR4/1	Moist		0.0	19	66	5,320	
5			_				Well Graded Medium-Coarse Sand with Silt and Gravel	0.0	21	52	5,100	
7						Wet	Well Graded Medium Sand with Silt and Gravel, Trace Pebbles	0.0	14	<3	5,240	
8	5	3.5			10YR5/1	***************************************		0.0	17	,	3,240	
9	-			OL			Bog	0.0	<3	<6	4,970	
10												

			SOI	IL BORING LOG SHEET				
BOREHOLE NUMBER:	LT-C-001	Instrument		Model Number	Serial Number			
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		110-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301			
WEATHER:	Sunny 38°	SCALER:	Ludlum 2221		172013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth:	10 feet				
Start Time:	13:15		Commpletion Time:	13:35				
Start Date:	1/13/2014		Completion Date:	1/13/2014				

Start Date:		1/13/2014			Completion Date		1/13/2014	RAD (2X Bac	kground)		As	Pb
	lkover Survey (10	0-8,800 cpm	Point	8,357		N	Monitoring Action levels	14,648			24 ppm	400 ppm
Range							6.10			B1		-00 ррш
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1	_				10YR6/1			0.0	< 3	16	5500	
2	5	4		SM	10YR3/1		Silty Sands, Tightly Packed					
3	-					Moist		0.0	< 3	13	7200	
4	-				10YR6/1							
5								0.0	< 1.6	14	5100	
6				SW-SM	10YR6/8		Medium Sands, Some Fines, Some Gravel					
7				SM	10YR5/1		Silty Sands	0.0	10.2	12	7050	
8	5	4			-	Wet	·					
9				SW-SM	10YR5/3		Medium Sands, Some Fines, Some	0.0	< 1.9	19	6690	
10				344-3141	101113/3		Gravel	0.0	\1. J	1,	0030	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		8:00			Commpletion Ti	me:	8:40					
Start Date:		1/14/2014			Completion Date	e:	1/14/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,80	00-4,700 cpm	Point	3,87	1 cpm	ľ	world action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1				SC	10YR5/2	Wet	Clayey Sand	0.0	43	< 6	4750	
2	5	2.5		CL	10YR4/1		Clay					
3					10YR6/4			18.6	4.6	14	4500	
4				SC	10YR5/2		Clayey Sand with Some Coarse Grain		-			
5						Moist	Sand	0.0	< 2.0	17	3990	
6				CL	10YR5/6		Clay					
7				CL			City	8.2	< 1.9	19	3960	- 🐷
8	5	3			10YR5/1							
9							Silty Sand, Some Corse Grained Sand	1.3	6	11	4170	
10				SM		Dry		1.5	ŭ	11	4170	
11	2	2			10YR5/6	Jiy	Medium-Fine Sands with Some	0.2	6	14	4600	
12	2	2			10YR5/2		Gravel	0.2	0	14	4000	

						SOII	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-003		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		8:50			Commpletion Ti	me:	9:15					
Start Date:		1/14/2014			Completion Date	2:	1/14/2014					
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,67	0-4,350 cpm	Point	4,130	О срт	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	111010 205
1				SM	10YR4/1	Wet	Silty Sand, Some Coarse Sand	0.0	68	33	4150	
3	5	4										
4				SC	10YR5/1		Clayey Sand	0.1	8	18	4320	
5			_		10YR6/2	Moist		0.0	4	21	4600	
7				SM			Silty Sand with Gravel	0.0	5.6	12	4780	
8	5	3.5			10YR6/3							
9					10YR6/1	Dry	Silt	0.0	3.8	18	4800	
10				ML	22.110, 2	,			2.0		.500	
11	2	2		IVIL	10YR7/3		Silt and Clay	0.0	4	16	4350	
12					10YR6/8		,					

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-004		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:30			Commpletion Ti	me:	9:50					
Start Date:		1/14/2014			Completion Date):	1/14/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	3,65	0-4,100 cpm	Point	3,744	l cpm	.,	Worldwing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
0												
2	5	0.25										
3												
4												
5					10YR5/4		Silt with Gravel	0.0	< 3	20	4,600	
6				ML								1
7					10YR5/1		Silt, Tightly Packed	0.0	3.5	11		
8	5	2.5			200, 2	Moist	5.1, 1g.1., 15.1.c.					-
9				CNA		1410131	City Cand with Cama Co	0.0	< 1.6	13	4.600	
10				SM	10YR5/4		Silty Sand with Some Gravel	0.0	< 1.0	13	4,690	
11	2	2		CL			Clay	0.0	< 2.0	16	4,560	
12	2	2		CL	10YR5/3		Clay	0.0	< 2.0	10	4,500	

				SO	IL BORING LOG SHEET				
BOREHOLE NUMBER:	LT-C-005	Instrument			Model Number		Serial Number	r	
GEOLOGIST:	AR	PID:	RAE Systems - P	GM7600		110-0095	76		
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000 500301						
WEATHER:	Rain 44°	SCALER:	Ludlum 2221 172013/PR156395						
Drilling Method:	Direct Push		Borehole Diame	eter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth	:	12 feet				
Start Time:	10:05		Commpletion Ti	ime:	10:40				
Start Date:	1/14/2014		Completion Date	e:	1/14/2014				
AARRSIM Walkover Survey (10"X10") RAD (2X Background) As Pb									

Start Date:		1/14/2014			Completion Date	2:	1/14/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,150	0-4,690 cpm	Point	4,480) cpm	ŗ	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0	(1-1)	V-9			33.3			(PP)	(66)	(PP)	(0,000)	
1					10YR5/3		Poorly Graded, Silty Sand with Little Gravel	0.0	5	7	3900	
2	5	3.5		SM		Moist						
3					10YR6/1		Silty Sand with Little Gravel	0.1	< 1.6	14	4350	
4												
5					10YR5/6	Wet		0.0	3.6	5.2	NA	
6						Wet		0.0	3.0	3.2	NA .	
7					10YR4/3			0.0	8	13	4250	
8	5	2.5		SW-SM		Moist	Medium, Well Graded, Sand with					
9				300-3101	10YR3/1	WIOISE	Fines and Some Gravel	0.0	5	12	4310	
10					10YR4/3			5.5	<u> </u>		.510	
11	2	2			10YR5/3	Wet		0.0	55	42	4270	
12					,,,							39

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-C-006		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	ıd:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:05			Commpletion Ti	me:	11:30					
Start Date:		1/14/2014			Completion Date	9:	1/14/2014					
MARRSIM Wa	lkover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	3,61	L0-4,450 cpm	Point	3,97	5 cpm	ľ	worldowing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	3			10YR6/6		Silty Sand	0.0	<8	<11	4300	
3	3	3		SM	10YR5/6		Medium, Well Graded Sand, Some	0.2	9	< 8	4100	
6			_		10/05/5	Wet	Fines, Some Gravel	0.5	< 1.4	5.9	4280	
7	5	4		sw	- 10YR6/6		Medium, Well Graded Sand with Gravel	0.3	4	5	4310	
9					10YR5/4			0.0	< 5	8	4400	
10												
11	2	2		CL	10YR4/1		Clay	0.0	< 9	22	4160	

				SOIL BORING LOG SHEET						
BOREHOLE NUMBER:	LT-C-007	Instrument		Model Number			Serial Numb	ber		
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600)		110-009576				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS	S-4000		500301				
WEATHER:	Rain 44°	SCALER:	Ludlum 2221	2221 172013/PR156395						
Drilling Method:	Direct Push		Borehole Diameter:	2 inch						
Sampling Method:	Closed Piston		Borehole Depth:	12 feet						
Start Time:	11:40		Commpletion Time:	12:00						
Start Date:	1/14/2014		Completion Date:	1/14/2014	•		•	_		
	4410				PAD (2V Pa	skaround)	Λc	Dh		

Start Date:		1/14/2014			Completion Date	<u>. </u>	1/14/2014	RAD (2X Bac	-ll\		As	Pb
	kover Survey (10			ı		1	Monitoring Action levels					
Range		0-4,250 cpm	Point	3,850			I	14,648			24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
0												15-21
1								0.0	6	8	4100	
2	5	3.5		SM	10YR4/2		Poorly Graded, Silty Sand with Few Gravel					
3						Moist		0.0	10	< 8	4280	
4												
5								0.0	< 3	21	4360	
6				ML	10YR5/6		Silt with Sand					
7								0.0	2	20	4190	
8	5	5			10YR7/3							
9						Dry		0.0	6	19	4380	
10				CL	10YR7/6	, ,	Clay					
11	2	1.5			10YR7/3			0.0	4	25	4210	
12	_			_								

						SOI	L BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-C-008		Instrument			Model Number				Seri	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	12 feet						
Start Time:		12:30			Commpletion Ti	me:	12:50						
Start Date:		1/14/2014			Completion Date	e:	1/14/2014						
MARRSIM Wall	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb	
Range	3,76	60-4,340 cpm	Point	3,91	6 cpm		violitoring Action levels	14,648	cpm		24 ppm		400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		
0													
1								0.0	17	< 4	4500		
2	5	3		SM	10YR3/1	Wet	Silty Sand with Gravel						
3	5	3		SIVI			Silty Saliu With Gravel						

Clayey Sand with Gravel

Clay

10YR4/2

10YR6/1

10YR6/6

10YR6/1

Moist

Wet

SC

CL

4

5

6

7

8

9

10

11

12

5

2

5

2

17

< 26

11

< 18

< 5

31

< 14

< 21

4

4670

4820

4750

4530

4480

0.0

0.0

0.0

0.0

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-009		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Rain 44°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		13:15			Commpletion Ti	ime:	13:40					
Start Date:		1/14/2014			Completion Dat	e:	1/14/2014					
MARRSIM Wal	kover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,54	40-4,980 cpm	Point	4,22	3 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0 1 2 3 4 5 5	5	3		SM	10YR4/1 10YR3/2	Moist	Silty Sand with Gravel	0.0	< 17	19	NR 4650	
6					10YR6/1							
7 8	5	4		CL		Wet	Clay	0.0	< 1.6	6.7	4820	
9					10YR6/4			0.0	< 4	13	4800	
10					101110/4			0.0		15	4000	

SM

10YR6/6

11

12

2

Moist

Silty Sand with Gravel

0.0

3.1

4740

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-010		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		7:36			Commpletion Ti	ne:	8:50					
Start Date:		1/15/2014			Completion Date	<u>:</u>	1/15/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	3,84	0-4,310 cpm	Point	3,762	2 cpm	,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2	5	3		SM	10YR5/4		Silty Sand with Gravel	0.0	17	14	NA	
3	5	3			10YR4/2			0.0	6	18	3900	
4												
5			-			Wet		0.0	< 6	18	4320	
7				SW	10YR5/8		Well Graded, Medium Sand with Gravel	0.0	< 12	< 16	NA	
8	5	1						0.0			NA	
9								0.0	< 8	17	4470	
10								5.5				
11	2	2		SM	10YR5/1		Silty Sand with Gravel	0.0	< 3	18	4070	
12	۷.	2		5141	10110/1		Sitey Suita With Graver	0.0	,,	10	4070	

						SOI	L BORING LOG SHEET						
BOREHOLE NU	IMBER:	LT-C-011		Instrument			Model Number				Seri	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Meth	hod:	Closed Piston			Borehole Depth	:	12 feet						
Start Time:		9:00			Commpletion Ti	me:	9:30						
Start Date:		1/15/2014			Completion Date	e:	1/15/2014						
MARRSIM Wal	lkover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	kground)	ound) As Pt			
Range	3,76	0-4,180 cpm	Point	3,89	7 cpm	'	violitoring Action levels	14,648	cpm		24 ppm		400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		Thoto Log
1 2					10YR5/1	Wet	Silty Sand	0.0	14	24	3900		
3	5	3.5		SM									

Range	3,76	0-4,180 cpm	Point	3,897	7 cpm	IV	Ionitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0	. "	V.7					Silty Sand	0.0	14	24	3900	
2	- 5	3.5			10YR5/1	Wet	Sinty Stanta					
3		3.3		SM				0.0	3	24	4100	
4							Wood / Bog Layer	0.0	,	24	4100	
5					10YR6/1		Silty Sand with Gravel	0.0	1.7	13.1	3980	
6					101K0/1		Silty Salid With Graver	0.0	1.7	13.1	3380	
7	5	2.5						0.0	< 2	13	4010	
9	_			SW	10YR6/6	Moist	Medium, Well Graded Sand with Gravel	0.0	<3	16	3960	
10								0.0	< 3	10	3900	
11	- 2	1.5		SW-SM	10YR6/4		Well Graded, Medium Sand with	0.0	4	39	4000	
12	2	1.0		344-3141	101110/4		Fines and Gravel	0.0	7	33	4000	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-012		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:00			Commpletion Ti	me:	9:30					
Start Date:		1/15/2014			Completion Date	2:	1/15/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,79	0-5,260 cpm	Point	5,450) cpm	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	. Hoto 20g
0							Silty Sand with Gravel	0.0	14	< 4	NA	
2	5	2.5		SM	10YR3/1		Sitty Salid with Graver					
3								0.0	9	26	3650	
4							Wood / Bog Layer					
5				SC			Clayey Sand	0.0	33	36	3810	3 - 1
6						Wet		0.0	33	30	3010	
7				CL	10YR5/1		Clay	0.0	9	21	3850	
8	5	4.5						0.0	,	21	3830	
9								0.0		21	4100	
10				CAA	10YR5/6		Silty Sand withGravel (Layer of White	0.0	< 2	21	4180	
11	2	2		SM	τοικό/ο		Rock)	0.0	< 5	16	4250	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-013		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:00	.5/2014			me:	11:30					
Start Date:		1/15/2014	15/2014			e:	1/15/2014					
MARRSIM Wal	kover Survey (1	0'X10')	10')			,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,63	30-5,040 cpm	Point	3,66	0 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
0												
1					10YR5/3			0.0	2.6	12	NR	
2	5	5 2.5				Wet	Silty Sand, Some Coarse					

Silty Sand and Gravel

Medium, Well Graded Sand with Silt

and Gravel

Clay

Medium, Well Graded Sand and

Gravel

0.0

0.0

0.0

0.0

0.0

< 3

8

5

< 6

< 7

20

14

11

21

24

3890

4170

4250

4060

3910

SM

SW-SM

CL

SW

10YR5/4

10YR5/6

10YR6/1

10YR5/6

10YR7/1

10YR5/6

Moist

Dry

3

4

5

6

7

8

9

10

11

12

5

2

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-014		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:45			Commpletion Ti	me:	14:00					
Start Date:		1/15/2014			Completion Date	e:	1/15/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,75	0-5,810 cpm	Point	5,582	2 cpm	."	World The Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2				SM	10YR5/6	Dry	Silty Sand with Gravel	0.0	12	8	4170	
3	5	4		SIVI								
4					10YR 6/3		Silty Sand with Gravel	0.0	<3	13	4150	
5			_	ML	10YR4/1	Moist	Silt	0.0	< 2	14	4210	
7				SM	10YR2/1		Silty Sand with Gravel	0.0	< 12	< 15	NR	
8	5	2			10YR4/1		,,					
9				SW-SM	10YR5/6	Wet	Well Graded, Medium Sand and Silt	0.0	4.2	25	4100	
10							with Gravel					
11	2	2		SM	10YR5/1		Silty Sand with Gravel	0.0	< 2	9	4120	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-015		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 34°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		14:15			Commpletion Ti	me:	14:50				·	
Start Date:		1/15/2014			Completion Date	e:	1/15/2014					
MARRSIM Wal	lkover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	T :			
Range	5,60	00-6,820 cpm	Point	5,81	3 cpm		Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	, note 20g
1								0.0	< 9	20	3800	
2	5	3.5		SM	10YR5/4		Silty Sand and Gravel					

Well Graded, Medium Sand and

Gravel

Well Graded, Medium Sands

Wet

10YR6/4

10YR4/3

10YR5/3

10YR5/8

SW-SM

4

5

6

7

8

9

10

5

3.5

0.0

0.0

0.0

0.0

< 4

4.7

< 2

< 4

21

8

7

6

3800

3900

4100

						SOI	L BORING LOG SHEET									
BOREHOLE NU	MBER:	LT-C-016		Instrument			Model Number		Serial Number							
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576							
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	nov-X Systems Inc DS-4000 500301										
WEATHER:		Clouds 40°	ds 40° SCALER:			udlum 2221 172013/PR156395										
Drilling Method	ling Method: Direct Push				Borehole Diamet	ter:	2 inch									
Sampling Meth	mpling Method: Closed Piston				Borehole Depth: 12 feet											
Start Time:	Fime: 8:00			Commpletion Tir												
Start Date:				Completion Date	2:	1/16/2014										
MARRSIM Wall	kover Survey (10	(10'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb				
Range	7,00	0-7,620 cpm	Point	7500	00 cpm		world action levels	14,648	cpm		24 ppm	400 ppm				
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log				
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log				
0						Wet		0.0	<17	<21	NA					
2	5	2.5			10YR4/4											
3											Well Graded, Medium Sand with Silt and Gravel	0.0	<3	9	6800	
4				SW-SM					·	,						
5						DRY		0.0	~?	0	NA	国性				
6								0.0	<2	9	NA					
7					10YR5/6		Red rock 10YR3/1, Well Graded	0.0	<2	14	6500					
8	5	3			20, 0		Medium Sand with Silt and Gravel		_							
9								0.0	<4	26	7000					
10				SM			Well Graded, Medium Sand and	0.0	\4	20	7000					
11	2	2			SM	10YR4/4		Gravel, at 11' White Rock	0.0	< 5	30	6500				
12	-	-			2011174			5.0	?	30	5500					

	SOIL BORING LOG SHEET											
BOREHOLE NUMBER:	LT-C-017	Instrument			Model Number Serial Number							
GEOLOGIST:	AR	PID:	RAE Systems - PG	M7600		110-009	110-009576					
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems I	Inc DS-4000		500301	500301					
WEATHER:	Clouds 40°	SCALER:	Ludlum 2221			172013/	PR156395					
Drilling Method:	Direct Push		Borehole Diamete	er:	2 inch							
Sampling Method:	Closed Piston		Borehole Depth:		10 feet							
Start Time:	9:15		Commpletion Tim	n Time: 10:00								
Start Date:	1/16/2014		Completion Date:		1/16/2014							
MARRSIM Walkover Survey (10'X10')					Monitoring Action levels	RAD (2X Background	As	Pb				

MARRSIM Wal	lkover Survey (10)'X10')			Completion Date		Nonitoring Action levels	RAD (2X Bac	ckground)		As	Pb				
Range	6,01	0-6,560 cpm	Point	6,27	0 срт	יו	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm				
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log				
1 2				SW-SM	10YR4/4	Wet	Wood, Well Graded, Medium Sand with Silt and Gravel	0.0	<3	17	NA					
3	5	3	3	3	3	3			10YR4/2	Moist		0.0	<4	18	7000	
5			_	SM	10YR5/2	Dry	Silty Sand	0.0	3	7	NA					
6																
7				SC	10YR4/6		White Rock, Clayey Sand	0.0	5	23	7300					
8	5	3.5				Moist	Well Graded, Medium Sand with Silt		-							
9				CL		WORK	and Gravel	0.0	3	16	7000					
10					10YR5/1		Clay	5.0		10	. 300					

						SOI	L BORING LOG SHEET								
BOREHOLE NU	MBER:	LT-C-018	_	Instrument		-	Model Number		Serial Number						
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576						
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301						
WEATHER:		Sunny 39°		SCALER:	Ludlum 2221				172013/PR156395						
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch								
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet								
Start Time:		12:30			Commpletion Ti	me:	12:50								
Start Date: 1/17/2014			Completion Date: 1/17/2014												
MARRSIM Walkover Survey (10'X10')						Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb				
Range	4,65	60-5,370 cpm	Point	5,61	519 cpm			14,648	cpm		24 ppm	400 ppm			
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log			
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log			
1 2	5	2.5		SW	10YR3/2		Asphalt, Well Graded Medium Sand with Gravel	0.0	5.9	26	7460				
4						Moist		0.0	6	35	7610				
5				SM			Silty Sand	0.0	10	9	7640				
6				SW	10YR3/1		Well Graded Medium Sand with Gravel	6.6	10	J	7010				
7					10YR3/2			0.0	-0	22	7820				
8	5	3		CL			Clay	0.0	<8	33	7820	a			

<11 28

0.0

10YR4/2

Wet

9

					SC	DIL BORING LOG SHEET							
BOREHOLE NUMBER:	LT-C-019		Instrument			Model Number			Serial Number				
GEOLOGIST:	AR		PID:	RAE Systems - PO	6M7600			110-009576	110-009576				
HEALTH TECHNICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301					
WEATHER:	Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1563	395				
Drilling Method:	Direct Push Borehole Diameter					2 inch							
Sampling Method:	Closed Piston			Borehole Depth:		12 feet							
Start Time:	7:50			Commpletion Tir	ne:	8:20							
Start Date:	1/20/2014			Completion Date	:	1/20/2014							
MARRSIM Walkover Surv	rey (10'X10')					RAD (2X E			As	Pb			
Pango	go F 420 6 910 cpm Doint F 606			6 cnm	Monitoring Action levels			cpm	24 ppm	400 ppm			

Start Date:		1/20/2014			Completion Date		1/20/2014	DAD (2)(D		1		DI.	
	lkover Survey (10		1	1		1	Monitoring Action levels	RAD (2X Background) 14,648 cpm		As		Pb	
Range		0-6,810 cpm	Point	5,696			1		·		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	36 23 8	
1 2			3		SW-SM	10YR4/6	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	<9	<11	7550	
3	- 5 -	3				10YR4/4	Moist		0.0	<3	15	8020	
4													
5								0.0	<4	27	7690	蒸 气	
6													
7				CL	10YR5/3		Clay	0.0	<6	20	8100		
8	5	4.5				Wet							
9								0.0	<3	14	8050		
10								0.0	,	14	8050		
11	2	2		SW-SM	10YR4/4		Well Graded Medium Sand with Silt and Gravel	0.0	6	22	7905		
12		4		CL	10YR5/3		Clay	0.0	0	22	7905		

						SOII	L BORING LOG SHEET							
BOREHOLE NU	MBER:	LT-C-020		Instrument			Model Number		Serial Number					
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576					
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301					
WEATHER:		Cloudy 35°		SCALER:	Ludlum 2221	udlum 2221 172013/PR156395								
Drilling Method	d:	Direct Push			Borehole Diameter: 2 inch									
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet							
Start Time:		8:30			Commpletion Ti	me:	9:00							
Start Date:		1/20/2014			Completion Date	2:	1/20/2014							
MARRSIM Wal	kover Survey (10)'X10')	1	1			Monitoring Action levels	RAD (2X Bac			As	Pb		
Range	5,260-6,270 cpm Point		Point	5,119) cpm	,	Tomcoming rector levels	14,648	cpm		24 ppm	400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)			
1 2	5	3		SM	10YR5/3	Wet	Silty Sand with Gravel	0.0	3	9	7480			
3	5	3			10YR4/1	- Moist		0.0	24	<9	7620			
4			_		SW	10YR6/8		Well Graded Fine Sand, Some Coarse						
5				SM	10YR5/3			0.0	3	7	8050			
7					10YR5/8		Silty Sand with Gravel	0.0	<4	24	7900			
8	5	4				Wet								
9				CL	10YR4/6		Clay	0.0	<4	30	7940	116		
10				ÜL.	10111470		Cidy	5.0			, 540			
11	2	2		SW-SM	10YR5/8		Well Graded Medium Sand with Silt and Gravel	0.0	<2	23	7810			
12	۷.	2		CL	10YR5/3		Clay	0.0	~2	23	7010			

(ft) (ft) (ft) Color Content (ppm) (ppm)								
HEALTH TECHNICIAN: MS	Serial Number							
NEATHER: Cloudy 35° SCALER: Ludlum 2221 172013/PR156395	110-009576							
Drilling Method: Direct Push Borehole Diameter: 2 inch								
Sampling Method: Closed Piston Borehole Depth: 10 feet								
Start Time: 11:00 Commpletion Time: 11:30								
Start Date: 1/20/2014 Completion Date: 1/20/2014								
MARRSIM Walkover Survey (10°X10°) Range								
Range 5,100-6,200 cpm Point 4,925 cpm Monitoring Action levels 14,648 cpm 24 pi Depth Advance Recovery Graphic Log USCS Code Soil Moisture Content PID Reading As Pb RA (ft) (ft) (ft) SM 10YR4/3 Silty Sand with Gravel 0.0 5 9 64	1/20/2014							
Range 5,100-6,200 cpm Point 4,925 cpm 14,648 cpm 24 pi Depth Advance (ft) (ft) (ft) (ft) SM 10YR4/3 Silty Sand with Gravel 0.0 5 9 64	s Pb							
(ft) (ft) (ft) Color Content (ppm) (ppm)	ppm 400 ppm							
0 SM 10YR4/3 Silty Sand with Gravel 0.0 5 9 64	AD Photo Log							
1 SM 10YR4/3 Silty Sand with Gravel 0.0 5 9 64	pm)							
	180							
<u> </u>								
3 Well Graded Medium Sand with Silt 0.0 12 <9 78	350							
4 and Gravel								
5 Wet 10YR5/3 0.0 <6 12 78	340							
6 Silty Sand with Gravel								
7	710							
8 5 2.5 10YR4/6								
9 Well Graded Medium Sand with Silt	340							

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-C-022		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		11:50			Commpletion Ti	me:	12:30					
Start Date:		1/20/2014			Completion Date	e:	1/20/2014					
MARRSIM Wal	lkover Survey (1	0'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,48	30-5,590 cpm	Point	4,92	5 cpm	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2	5	2.5		SW	10YR3/3		Well Graded Fine Sand with Medium Sand and Gravel	0.0	31	101	7350	
4						Moist		0.0	<3	27	7510	
5				SM	10YR5/4		Silty Sand. Pockets of Gravel and Clayey Sand	0.0	9	<10	7600	
6	-			SC								
7	_							0.0	5	<3	7580	
8	5 2.5		SW-SM	10YR4/6 & 5YR4/6	Wet	Well Graded Medium Sand with Silt and Gravel. Bands of Color.						
9							0.0	<1.9	3	7780		

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-023		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		12:50			Commpletion Ti	me:	13:20					
Start Date:		1/20/2014			Completion Dat	e:	1/20/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	5,68	0-6,140 cpm	Point	5,93	0 cpm	,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Soil Moisture Soil Description PID Re		PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	o.to 20g
1 2	5	4		SW			Wood, Grass, Well Graded Fine Sand, Some Medium Sand	0.0	<3	<4	7450	
4	-				10YR5/8			0.0	2.6	<2	7600	
6				CL		Wet	Well Graded Medium Sand with Gravel. Pockets of Clay	0.0	<5	6	7700	
7	5	5		SW-SM	10YR4/6		Well Graded Medium Sand with Silt and Gravel	0.0	3.3	<2	7820	
9								0.0	<3	<4	7620	
10				CL	10YR5/8		Clay					
11	2	2		SW			Well Graded Medium Sand with Gravel	0.0	2.7	10.1	7780	

					SOI	L BORING LOG SHEET				
BOREHOLE NUMBER:	LT-C-024		Instrument			Model Number			Serial Number	r
GEOLOGIST:	AR		PID:	RAE Systems - PO	GM7600		110-	-009576		
HEALTH TECHNICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000		5003	301		
WEATHER: Snow 22° SCALER: Ludlum 2221							1720	013/PR15639	95	
					ter:	2 inch				
Sampling Method:	Closed Piston			Borehole Depth:		12 feet				
Start Time:	7:55			Commpletion Tir	me:	8:50				
Start Date: 1/21/2014 Comple					2:	1/21/2014				
ARRSIM Walkover Survey (10'X10')					,	Monitoring Action levels	RAD (2X Backgrou	ound)	As	Pb
Range	1,850-5,930 cpm	Point	5,41	5,416 cpm Monit		violitoring Action levels	14,648 cpm	1	24 ppm	400 ppm

Start Date:		1/21/2014			Completion Date	2:	1/21/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	4,850	0-5,930 cpm	Point	5,416	5 срт	,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2					10YR3/2	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	261	452	4,350	
3	5	3		SW-SM	10YR5/3			0.0	661	1826	4,680	
5			-				Well Graded Fine Sand with Silt and Gravel	0.4	100	78	3,975	
6												
7	5	4			10YR6/4	Moist		0.0	81	22	4,225	
9				CL	10YR5/4		Clay	208.0	141	13	4,545	
10					10YR2/1			208.0	141	13	4,545	
11	2	1.5		SW-SM	10YR5/4	Wet	Well Graded Medium Sand with Silt and Gravel. Black Staining @ 9'-10'.	0.0	<4	8	4,460	
12		-			· ·,						,	

						SOII	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-025		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Snow 22°		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:30			Commpletion Ti	me:	9:55					
Start Date:		1/21/2014			Completion Date	2:	1/21/2014					
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,74	10-4,960 cpm	Point	3678	3 срт	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2		4						0.0	<3	7	4,310	
3		4		SW-SM	10YR5/4	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	< 6	12	4,450	
5			-	300-3101				27.5	18	36.4	4,390	
7	5	5			10YR2/1		Well Graded Medium Sand with Silt and Gravel. Black Staining.	0.0	3.6	2.9	4,460	
9						Moist		18.3	< 8	17	5,110	
10				CL	10YR6/1		Clay			<u>-</u> .	-,	
11	2	2		SM	10YR5/1		Silty Sand with Gravel	0.0	< 6	10	4,800	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-026		Instrument			Model Number				Seri	ial Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Snow 22°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		10:10			Commpletion Ti	me:	10:40					
Start Date:		1/21/2014			Completion Date	e:	1/21/2014					
MARRSIM Wa	kover Survey (1	0'X10')	_				Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	5,89	90-6,530 cpm	Point	6,32	5 cpm		violitioning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
2 3 4	. 5	3		SW-SM	10YR4/3	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	11	52 39	4,880 4,925	
6			_					0.0	12	50	5,010	
7						Moist		0.6	16	49	5,140	7 6
8	5	4			10YR45/4							
9			SM		Wet	Silty Sand, Some Gravel	0.4	<3	21	4,990	Mole	

				SO	IL BORING LOG SHEET				
BOREHOLE NUMBER:	LT-C-027	Instrument			Model Number		Serial Number		
GEOLOGIST:	AR	PID:	RAE Systems - PC	GM7600		110-0095	6		
HEALTH TECHNICIAN: MS XRF: Innov-X Systems Inc DS-4000 500301									
WEATHER:	Snow 22°	SCALER:	Ludlum 2221	udlum 2221 172013/PR156395					
Drilling Method:	Direct Push		Borehole Diamet	ter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth:		12 feet				
Start Time: 11:00 Commpletion Time: 11:45									
Start Date:	1/21/2014		Completion Date):	1/21/2014	•			
						DAD (2)(De elverence el)	A -	DF	

Start Date:		1/21/2014			Completion Date	2:	1/21/2014					
MARRSIM Wal	kover Survey (10	'X10')					Nonitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,950	0-5,590 cpm	Point	5,499) cpm	I	nonitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0												> 4
1								0.0	46	225	NA	
2	- 5	4										
4				SM	10YR3/3		Silty Sand with Gravel	0.0	11	17	NA	11
4												3/10-
5						Moist		0.0	76	12	NA	
6												
7								0.7	46	11	NA	
8	5	5		SC	10YR2/1		Pete, Clayey Sand, some Gravel.					
9								0.0	<11	22	NA	MES
10												
11	2	2		SW	10YR5/6	Wet	Well Graded Medium Sand with	0.0	<6	26	NA	
12							Gravel					

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-028		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 11°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		12:40			Commpletion Ti	me:	13:45					
Start Date:		1/24/2014			Completion Date	e:	1/24/2014					
MARRSIM Wal	kover Survey (10	D'X10')				,	Monitoring Action levels	RAD (2X Bad			As	Pb
Range	6,08	30-6,790 cpm	Point	6,54	8 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
2	5	4		SM	10YR4/3	Dry	Wood, Silty Sand	0.0	14	38	7,100	
4					10YR5/3		Silty Sand with Gravel	0.0	2.9	11.8	7,250	1
5					10YR4/4	Moist	Sity sails that states	0.0	7	14	6,840	
6												
7								0.0	2	10.8	6,760	
8	5	5		SW-SM	10YR4/6	Wet	Well Graded, Medium Sand with Silt and Gravel				,,	10 10 10 10 10 10 10 10 10 10 10 10 10 1

4.1 18.3 6,790

0.0

9

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-029		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Cloudy 29°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		8:00			Commpletion Ti	me:	9:00					
Start Date:		1/27/2014			Completion Date	e:	1/27/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	6,75	60-7,380 cpm	Point	7,28	4 cpm		violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	5	2		SM	10YR5/4		Wood, Leaves, Silty Sand with Gravel	0.0	5	11	7,140	
4	J	-		SW	10YR5/8	Moist	Well Graded Fine Sand	0.0	7.5	14.5	7,390	
5			_	SC			Clayey Sand	0.0	<4	20	7,025	
7					- 10YR5/3			0.0	<4	22	7,210	
8	5	4.5		SM		Wet	Silt					
9					10YR5/4			0.0	4	14	7,225	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-030		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 29°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:50			Commpletion Ti	me:	13:10					
Start Date:		1/27/2014 (10'X10')			Completion Date	2:	1/27/2014					
MARRSIM Wal	kover Survey (1	(10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,10	0-4,550 cpm Point 4			5 cpm	ľ	vionitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log
0												
1						Moist	Asphalt, Concrete, Silty Sand with Gravel	0.0	<9	46	5650	
2	5	4			10YR5/2		Giovei					
3		4				0			_		5510	
4						Dry		0.0	5	8	5510	
							1					

0.0

0.0

0.0

0.0

Silty Sand

<2

<3

16

<3

18

38

10

5480

5560

5830

5650

10YR6/6

10YR6/3

10YR5/6

10YR5/2

Moist

Wet

SM

5

6

7

8

9

10

11

12

5

						SOII	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-031		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 29°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:45			Commpletion Ti	me:	14:20					
Start Date:		1/27/2014			Completion Date	2:	1/27/2014					
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,81	0-5,620 cpm	Point	5,25	2 cpm	,,	nonitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2				SM	10YR4/2	Moist	Wood, Grass, Silty Sand with Gravel	0.0	<4	28	5100	
3	5	3		SW-SM	10YR4/4	Desi	Well Graded Medium Sand with Silt and Gravel	0.0	13	97	4975	
5			-	SM	10YR4/2	Dry	Silty Sand with Gravel	0.0	7	22	5460	
7	5	4.5			10YR5/3	Moist	Well Graded Fine Sand with Silt and	0.0	<12	30	5310	
9		1		SW-SM	10YR5/54		Gravel	0.0	<3	35	4960	
10						Wet						
11	- 2				10YR5/8		Well Graded Medium Sand with Silt and Gravel	0.0	<3	10	4730	

						SOI	L BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-C-032		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - PO	6M7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Sunny 25°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Direct Push			Borehole Diamet	er:	2 inch						
Sampling Metl	nod:	Closed Piston			Borehole Depth:		10 feet						
Start Time:		13:20			Commpletion Tir	ne:	14:30						
Start Date:		1/30/2014			Completion Date	:	1/30/2014						
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb	
Range	4,87	'0-5,620 cpm	Point	5,45	5 cpm		violitoring Action levels	14,648	48 cpm 24 ppm 400 ppm				
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log	
1 2	5	4		SW-SM	10YR4/4		Well Graded Medium Sand with Silt and Gravel	0.0	43	66	4,670		
4				SM	10YR4/1	Wet	Silty Sand with Gravel	0.0	13	18	4,830		
6				CL	- 10YR5/3	Wet	Clay	0.0	5	20	3,940		
7				SW-SM	10YR5/4		Well Graded Medium Sand with Silt	0.0	<3	19	4,070		
8	5	4			10YR4/6		and Gravel				·	2)	
9				CL	10YR7/1		Clay	0.0	18	26	4,380		

10YR6/1

						SO	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-C-034		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 18 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	ıd:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		8:20			Commpletion Ti	me:	9:00					
Start Date:		2/4/2014			Completion Dat	e:	2/4/2014					
MARRSIM Wal	lkover Survey (1	0'X10')	,560 cpm Point 4,3				Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,1	10-4,560 cpm					Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	2.5			10YR3/3			0.0	<1.5	25.5	3,910	
3				SM			Snow, Wood, Leaves, Silty Sand with Gravel	0.0	28	84	3,950	
5			_		10YR3/1	Wet		0.0	95	136	4,150	
1	-				1	-	-		-	1	1	

Well Graded Medium Sand with Silt

and Gravel

Silty Sand with Gravel

SW-SM

SM

10YR4/1

9

10

11

12

2

0.0

0.0

0.0

57

73

10

21

28

4,260

3,980

3,860

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-035		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 18 °		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:20			Commpletion Ti	me:	9:50					
Start Date:		2/4/2014			Completion Date	2:	2/4/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bac			As	Pb
Range	4,14	0-5,150 cpm	Point	5,282	2 cpm	'	world action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	208
0					10YR3/2	Wet		0.0	8	94	3,920	
2	5	4			10113/2	Moist		0.0	8	34	3,320	
3	3	7					Snow, Wood, Leaves, Brick, Silty Sand with Gravel	0.0	3	59	4,060	
4				SM	10YR4/2	Dry						
5								0.0	230	211	4,170	
6												
7					10YR2/1		Silty Sand, Bog layer at 6'	0.0	362	211	4,050	
8	5	4									·	
9				SC	10VD2/1	Maict	Clayey Sand	0.0	44	54	2 800	
10					10YR3/1	Moist		0.0	44	54	3,890	
11	2	3		SM	10YR5/4		Silty Sand with Gravel	0.0	22	27	3,760	
		3			1011/14			0.0	- 22	2/	3,700	

						SOII	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-036		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 29 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		10:40			Commpletion Ti	me:	11:20					
Start Date:		2/4/2014			Completion Dat	e:	2/4/2014					
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,74	0-5,650 cpm	Point	5,37	9 cpm	,,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11000 206
1 2					10YR4/3			0.0	8	19	6,988	
3	5	3.5		SM	10YR5/6	Moist	Snow, Silty Sand with Gravel	0.0	2.4	16.9	7,130	
5			_		10YR5/4			0.0	<4	17	7,010	
7					10YR4/3			0.0	<15	80	7,140	
8	5	4					Well Graded Medium Sand with Silt					
9				SW-SM	10YR5/6	Wet		0.0	28	91	7,260	
10							Well Graded Medium Sand with Silt					
11	- 2	2.5			10YR3/6		and Gravel	0.0	<14	31	7,340	

Clayey Sand

SC

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-037		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 29 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:30			Commpletion Ti	me:	12:05					
Start Date:		2/4/2014			Completion Date	2:	2/4/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	4,36	0-4,990 cpm	Point	4,396	5 срт	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
0					10YR5/4	Wet		0.0	28	16	6,630	
2	5	3.5		SM			Wood, Silty Sand with Gravel					
3					10YR5/1	Moist		0.0	<1.2	11.2	6,760	
4					,						ŕ	
5			-		10YR5/4			0.0	<3	18	6,820	
6												
7				SW-SM			Well Graded Medium Sand with Silt and Gravel	0.0	3.4	9.8	6,690	
8	5	4			10YR4/6	Wet					-,	
9					101114/0	wet		0.0	<3	19	6,750	
10				SM			Silty Sand	0.0	ζ3	19	6,750	
11	2	3		SW-SM	10YR4/4		Well Graded Medium Sand with Silt	0.0	5	18	6,820	
					-		and Gravel					

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-038		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 29 °		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:00			Commpletion Ti	me:	13:40					
Start Date:		2/4/2014			Completion Date	e:	2/4/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,64	0-5,330 cpm	Point	5,29	1 cpm	l'	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2				SM	10YR3/2		Snow, Wood, Silty Sand with Gravel	0.0	<3	34	6,150	
3	5	4		SC	5YR5/2		Clayey Sand	0.0	7.5	20	6,260	
5				CL	10YR6/1	Moist	Sandy Clay with Gravel	0.0	<4	17	6,250	
7	_	25						0.0	<2	14	6,390	
8	5	3.5		SM	10YR5/6		Silty Sand with Gravel					
10								0.0	5	8	6,325	
11	2	3		SW-SM	10YR5/3	Wet	Well Graded Medium Sand with Silt and Gravel	0.0	2.2	2.8	6,350	
1]			1011/3/3	wet		0.0	2.2	2.0	0,550	

Silty Sand

SM

						SOI	L BORING LOG SHEET				
BOREHOLE NUME	BER:	LT-C-039		Instrument			Model Number			Serial Number	
GEOLOGIST:		AR		PID:	RAE Systems - PO	6M7600			110-009576		
HEALTH TECHNIC	IAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301		
WEATHER:		Sunny 29 °		SCALER:	Ludlum 2221				172013/PR15	66395	
Drilling Method:		Direct Push			Borehole Diamet	er:	2 inch				
Sampling Method	d:	Closed Piston			Borehole Depth:		12 feet				
Start Time:		13:50			Commpletion Tir	ne:	14:30				
Start Date:		2/4/2014			Completion Date	:	2/4/2014				
MARRSIM Walkov	ver Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)	As	Pb
Range 3,530-4,010 cpm Point 3,217 cpm					7 cpm	ļ	Wioring Action levels	14,648	cpm	24 ppm	400 ppm

Start Date:		2/4/2014			Completion Date	2:	2/4/2014					
MARRSIM Wal	lkover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac			As	Pb
Range	3,530	0-4,010 cpm	Point	3,21	7 cpm		Total and Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1 2	- 5	3.5		SW-SM	10YR4/4		Wood, Well Graded Medium Sand with Silt and Gravel	0.0	12	15	6,810	
3	3	3.3						0.0	11	43	6,940	
5			_	SM	10YR4/1		Silty Sand	0.0	17	27	6,750	
6						Wet						
7					10YR6/1			0.0	<4	35	6,830	
8	5	4										
9				CL	10YR6/1/6/3		Clay	0.0	<10	35	6,910	
10					10YR4/4		5.5,	5.5	-10	33	0,510	
11	2	3			10YR5/2			0.0	3.4	30.8	6,920	
12		J			101113/2			0.0	5.7	30.0	0,320	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-040		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Freezing Rain 32 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		11:30			Commpletion Ti	me:	11:55					
Start Date:		2/5/2014			Completion Date	e:	2/5/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,72	0-5,070 cpm	Point	5,07	6 cpm	,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	3.5		SM	10YR5/4		Snow, Wood, Leaves, Silty Sand	0.0	11	24	5,800	
3					10YR5/1 10YR5/4	Moist	Well Graded Medium Sand with Silt	0.0	14	18	6,970	
5							Well Graded Fine Sand with Silt and Gravel					
6				SW-SM	10YR5/2			0.0	4.3	10	6,820	
7					101113/2		Well Graded Medium Sand with Silt	0.0	3.4	9	6,940	
8	5	3.5					and Gravel				,	
9				SM	10YR6/2	Wet	Silty Sand with Gravel	0.0	4.2	8.4	6,850	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-041		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Freezing Rain 32 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:30			Commpletion Ti	me:	12:00					
Start Date:		2/5/2014			Completion Date	e:	2/5/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,12	0-4,560 cpm	Point	4,943	1 cpm		vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0				SM	10YR5/3		Snow, Wood, Leaves, Silty Sand with Gravel	0.0	4.6	15	4,250	
2	5	3										
3				SW-SM			Well Graded Medium Sand with Silt and Gravel	0.0	<1.6	12	4,280	
4						Moist					,	4 - 3
5			-				Silt with Gravel	0.0	2.7	11	4,490	
6				ML	10YR5/1							
7					101110,1		Silt	0.0	3.4	12	5,120	
8	5	4					Sitt	0.0	5.4	12	3,120	
9								0.0	<2	18	4,940	
10				SC		Wet	Clayer Sand with Graval	0.0	~2	10	4,340	
11	2	1.5		30	10YR6/2	wet	Clayey Sand with Gravel	0.0	5	<5	4,250	
	4	1.3			10110/2	ı		0.0	,	\ J	4,230	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-042		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 32 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		12:20			Commpletion Ti	me:	12:50					
Start Date:		2/5/2014			Completion Date	e:	2/5/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,74	10-5,850 cpm	Point	4,60	7 cpm	ľ	violitoring Action levels	14,648	cpm	400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	. 5	3.5		SW-SM	10YR6/2		Snow, Wood, Leaves, Well Graded Fine Sand with Silt and Gravel	0.0	<1.6	14	5,350	
4					10YR4/6			0.0	<1.4	11	5,490	
5						Wet		0.0	<1.5	10	5,780	
7	5	5		CL	10YR5/2		Sandy Clay	0.0	<16	12	6,020	
9					10YR6/1			0.0	<1.5	16	6,270	

Silt

ML

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-043		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 32 °		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:20			Commpletion Ti	me:	12:50					
Start Date:		2/5/2014			Completion Date	2:	2/5/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,58	0-4,960 cpm	Point	4,502	2 cpm	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2				SW-SM	10YR3/2		Grass, Well Graded Fine-Medium Sand with Silt and Gravel	0.0	<1.7	21	4,580	
3	5	3										
4					10YR4/4		Sandy Clay with Gravel	0.0	1.6	16	4,960	
5			-	CL			Sandy Clay	0.0	<1.7	16	4,502	
6						Wet						3
7					10YR4/1		Clay	0.0	<1.7	19	4,909	
8	5	3			·						·	
9				SW-SM			Well Graded Fine Sand with Silt	0.0	<1.5	11	4,820	
10				344-3141			vven Graded i nie Sand with Sitt	0.0	~1.3	11	4,020	
11	2	2		CL	10YR5/4		Sandy Clay	0.0	<1.7	17	4,502	
12		2		CL	101113/4		Sandy Clay	0.0	\1./	1/	4,502	

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-044		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Rain 32 °		SCALER:	Ludlum 2221				172013/PR1	6395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:20			Commpletion Ti	me:	14:05					
Start Date:		2/5/2014			Completion Date	2:	2/5/2014					
MARRSIM Wall	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	4,63	0-5,210 cpm	Point	4,287	cpm cpm	,,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2	5	3		SM	10YR6/4		Silty Sand with Trace Gravel	0.0	7.1	5	5,400	
3	5	3		CL	10YR6/1		Clay	0.0	3.4	13	5,730	
4				SM	101110,1		Silty Sand	GIG .	5	13	3,730	
5						Moist		0.0	<1.4	6.4	5,610	
7				SW-SM	10YR5/6		Well Graded Medium Sand with Silt	0.0	2.2	6.6	5,780	
8	5	5									5,7.55	
9								0.0	<1.6	18	6,040	
10				CL	10YR4/2		Sandy Clay	0.0	11.0	10	0,040	
11	2	2		OL.	101114/2	Wet	Sundy Clay	0.0	2.1	18	5,540	
12	-	-				Wet		0.0	2.1	10	3,340	

						SOIL	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-045		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Method	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		12:50			Commpletion Tir	ne:	13:20					
Start Date:		2/6/2014			Completion Date):	2/6/2014					
MARRSIM Wal	kover Survey (10)'X10')					Appitoring Action lovels	RAD (2X Bad	kground)		As	Pb
Range	3,12	0-3,410 cpm	Point	3,29	3 cpm	IV.	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0 1 2 3 4 5	5	3		CL	10YR4/1 10YR2/2	Wet	Sandy Clay	0.0	<2	105	3,890 4,410	
6					10YR3/2			0.0	<1.5	16.7	4,760	
7				SW			Well Graded Fine Sand	0.0	2.8	11.4	4,270	
8	5	3.5			10YR4/6							
9				SW-SM			Well Graded Fine Sand with Silt	0.0	7	16	4,380	
10				5.7. 5141			311		·	_5	.,300	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-046		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho		Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:	:	12 feet					
Start Time:		12:55			Commpletion Ti	me:	13:30					
Start Date:		2/6/2014			Completion Date	e:	2/6/2014					
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	nitoring Action levels RAD (2X Background)				Pb
Range	2,49	0-2,620 cpm	Point	2,450	6 cpm	· ·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	. Hoto Log
1 2		3		SW-SM	10YR5/1	Moist	Well Graded Fine Sand with Silt and Gravel	0.0	8	53	4,100	
3				SW	10YR6/1		Well Graded Fine Sand	0.0	18.3	10	3,980	
6			-	300	10YR4/1		well draued rifle Sand	0.0	8.2	13.1	4,120	
7	5	5		SW-SM	10YR4/2		Well Graded Fine Sand with Silt	0.0	5.8	4.2	4,220	
9				CL	10YR5/1	- Wet	Sandy Clay	0.0	7	11	4,130	
11						1						

SW

2.5

12

10YR3/3

4,160

0.0

Well Graded Fine Sand with Gravel

						SOI	L BORING LOG SHEET						
BOREHOLE NU	IMBER:	LT-C-047		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR15	56395			
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Metl	hod:	Closed Piston			Borehole Depth:		12 feet						
Start Time:		13:50			Commpletion Ti	me:	14:20						
Start Date:		2/6/2014			Completion Date	2:	2/6/2014						
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As		Pb
Range	2,56	60-2,920 cpm	Point	2,37	8 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm		400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD		Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		T Hoto Log
0					10YR3/1			12.5	126	66	4,850	Contract of the last	
2	5	3											
4				SW			Well Graded Fine Sand	18.9	30	5	5,030	HANN THE	
5			-		10YR2/1	Wet		14.4	39	9.2	5,080		
7	_			OL			Bog	9.2	214	27	5,035		
8	5	5											
10								1.0	2.9	10	5,160		
11	2	2		SW	10YR4/1		Well Graded Fine Sand	1.5	55	14	4,890	1	
12											,		

						SOIL	BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-C-048		Instrument		-	Model Number			_	Serial	Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Orilling Metho	od:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		12:00			Commpletion Ti	me:	12:50					
tart Date:		2/20/2014			Completion Date	e:	2/20/2014					
ARRSIM Wal	lkover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,45	0-4,790 cpm	Point	4,963	1 cpm	.,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	5	3			10YR5/3	Wet	Well Graded Medium Sand with Silt	0.0	<10	13	4,960	
3		3		SW-SM			and Gravel	0.0	<8	14	5,010	
5			_		10YR2/1	Moist		0.0	<19	<21	4,880	
							Wood, Asphalt, Well Graded Medium					
7					10YR3/1		Sand with Silt and Gravel	0.5	<12	15	4,860	
8	5	3.5				Wet					,,,,,,	
9				ML	10YR4/4		Silt	0.0	<50	<34	4,780	
10								5.5	.55		.,,	1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-049		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sun 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		13:40			Commpletion Ti	me:	14:30					
Start Date:		2/20/2014			Completion Date	e:	2/20/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Appitaring Action lovels	RAD (2X Bad	ckground)		As	Pb
Range	4,23	30-4,760 cpm	Point	4,89	4 cpm	יו	Monitoring Action levels	14,648				
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log
1 2 3	5	3		SW-SM	10YR4/4	Wet	Well Graded Medium Sand with Silt and Gravel	0.0	<17	<17	4,690	
4				CL	10YR5/1	Moist	Clayey Sand with Gravel	0.0	<14	24	5,120	
5				SW-SM	10YR5/3	WOSE	Well Graded Medium Sand with Silt and Gravel	0.0	<7	13	4,940	
6				SM	·		Silty Sand with Gravel				·	
7				SW-SM			Well Graded Medium Sand with Silt and Gravel	0.5	<68	<65	4,860	
9	5	3.5		SM	10YR5/1	Wet	Silty Sand with Gravel	0.0	<7	19	4,740	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-050		Instrument:			Model Number				Seri	al Number
GEOLOGIST:		AR/JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 27°		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Metl	hod:	Closed Piston			Boreho	le Depth:	10 Feet					
Start Time:		12:10			Complet	ion Time:	12:35					
Start Date:		2/7/2014			Complet	tion Date:	2/7/2014					
MARRSIM Wal	lkover Survey (10	D'X10')					Monitoring Action levels	Rad (2X Bad	kground)		As	Pb
Range	3,73	30-4,190 cpm	Point	3,91	3 cpm		violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	- 5	5			10YR3/2	Dry	Well Graded Fine Sand, Some Silt, Some Gravel, Brick & Concrete.	0.0	< 4	93	4,550	
4					10YR2/2			0.0	< 2	56	4,170	
5			_	SW	104K2/2	Moist	Well Graded Fine Sand, Some Gravel.	0.0	5	55	3,840	
6												
7	5	5 5			10YR3/1		Well Graded Fine Sands, Some Sile, Some Gravel.	0.0	5	33	3,720	
9	,				10YR4/3	Wet	Well Graded Fine to Coars Sands,	0.0	10	33	3,540	

Some Gravel.

			SO	IL BORING LOG SHEET							
BOREHOLE NUMBER:	LT-C-051	Instrument:		Model Number			Seria	l Number			
GEOLOGIST:	AR/JE	PID:	RAE Systems - PGM7600			110-009576					
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000			500301					
WEATHER:	Sunny 27°	Scaler:	Ludlum 2221		172013/PR156395						
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch							
Sampling Method:	Closed Piston		Borehole Depth:	12 Feet							
Start Time:	12:40		Completion Time:	13:00							
Start Date:	2/7/2014		Completion Date:	re: 2/7/2014							
	460			·	Pad /2V Pad	(around)	Λs		Dh		

Start Date:		2///2014			Complet	ion Date:	2/7/2014					
MARRSIM Wal	lkover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac			As	Pb
Range	3,89	0-4,830 cpm	Point	4,754				14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil Color	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft) 0	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
2					10YR3/2	Dry		0.0	< 9	117	3,925	
3	5	4.5				Moist		0.0	2	36	3,900	
4												
5			-		10YR2/1			0.0	4	44	3,710	
6				SW			Well Graded Fine Sands, Some Silt, Some Gravel.					
7					10YR3/1			0.0	< 4	23	4,030	
8	5	3				Wet						
9								0.0	2	12	4,240	
10					10YR4/1							
11	- 2	2						0.0	< 3	15	4,080	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-052		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 22 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	5 feet					
Start Time:		9:15			Commpletion Ti	me:	10:20					
Start Date:		2/18/2014			Completion Date	e:	2/18/2014					
MARRSIM Wal	kover Survey (10)'X10')						RAD (2X Bad	X Background) As Pb			
Range	5,25	0-5,910 cpm	Point	5,24	5 cpm	· ·	Monitoring Action levels	14,648	cpm	400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhatalaa
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2		2		SW	10YR5/3	Wet	Well graded, medium sands with silt and gravel	0.0	< 22	110	4,060	
3	5	2		SM	10YR4/1	wet	Silty Sand with Gravel	0.0	< 7	155	4,000	
5				sw			Well graded, medium sands with gravel	0.0	< 4	52		· PR

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-053		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		11:10			Commpletion Ti	me:	12:30					
Start Date:		2/21/2014			Completion Date	e:	2/21/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,11	LO-4,690 cpm	Point	4,26	0 cpm	'	violitoring Action levels	14,648				
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2				SW-SM	10YR2/1	Wet	Well Graded Medium Sand with Silt and Gravel, some brick	0.0	31	147	4,280	
3	5	3.5			10YR5/1	Moist	and Graver, some street	0.0	<4.6	21	5,590	
5				CL	10YR2/1 10YR4/1		- Asphalt, Clayey Sand with Gravel	0.0	<5.6	36	4,285	
7 8	5	4		SM		Wet	Ash, Silty Sand with Gravel	0.5	17.6	22	5,410	
9				OL	- 10YR3/2		Bog	0.0	3.3	7.1	6,060	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-054		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Air Hammer			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	5 feet					
Start Time:		12:40			Commpletion Ti	me:	13:50					
Start Date:		2/21/2014			Completion Date	e:	2/21/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	D (2X Background) As Pb			
Range	3,86	0-4,690 cpm	Point	3,90	0 cpm	,	worldowing Action levels	14,648	48 cpm 24 ppm 400 ppm			
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
0					10YR3/1	Wet						
1					10YR3/3			0.0	10	26	4,066	
2	5	4		SW-SM		Moist	Well Graded Medium Sand with Silt and Gravel					
3								0.0	<5.6	14	4,465	
4					10YR5/1	Wet					,,,,,,	
5				SM		wet	Silty Sand with Gravel	0.0	<3.7	<5.3	4,785	

SOIL BORING LOG SHEET																
BOREHOLE NU	JMBER:	LT-C-055		Instrument			Model Number	Serial Number								
GEOLOGIST: DNE			PID:	RAE Systems - Po	RAE Systems - PGM7600 110-009576											
HEALTH TECHNICIAN: MS			XRF:	nnov-X Systems Inc DS-4000 500301												
WEATHER: Partly Cloudy 22 ° SCA				SCALER:	Ludlum 2221 172013/PR156395											
Drilling Method: Direct Push					Borehole Diame	Borehole Diameter: 2 inch										
Sampling Method: Closed Piston					Borehole Depth:		10 feet									
Start Time: 12:15				Commpletion Ti	me:	12:45										
Start Date: 2/10/2014					Completion Date	ompletion Date: 2/10/2014										
MARRSIM Wa	lkover Survey (10	D'X10')	,	•	Monitoring Action levels RAD (2X Back			ckground)		Pb						
Range	2,34	10-2,590 cpm	Point	2,35	1 cpm	·	To me of the contract of the c	cpm 24 ppm			400 ppm					
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log				
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)					
1 2	5	2.5			10YR2/2		Medium-Fine Sands, Silt, Trace Gravel.	0.0	<1.8	28	3,910					
3							Medium-Fine Sands, Trace Silt,	- 0.0	3.1	53	3,880					
5				-	SW	10YR5/4	Wet	Gravel.	0.0	14.2	29	3,850				
6	-															
7					10YR4/2		Medium-Fine Sands, trace Gravel, Trace Silt.	0.0	8.4	7	3,900					
8	5	1.5						0.0	0.4							
9												0.0	14.3	< 1.9	3,780	

						SOI	L BORING LOG SHEET									
BOREHOLE NU	JMBER:	LT-C-056		Instrument			Model Number	Serial Number								
GEOLOGIST:		DNE		PID:	RAE Systems - P	GM7600		110-009576	.10-009576							
HEALTH TECHNICIAN: MS			XRF:	innov-X Systems Inc DS-4000 500301												
WEATHER: Partly Cloudy 22 ° SCALER:					Ludlum 2221 172013/PR156395											
Drilling Method: Direct Push					Borehole Diame	ter:	2 inch									
Sampling Method: Closed Piston				Borehole Depth:	10 feet											
Start Time: 14:00				Commpletion Ti	me:	14:20										
Start Date: 2/10/2014					Completion Date	mpletion Date: 2/10/2014										
MARRSIM Wa	lkover Survey (1	0'X10')			Monitoring Action levels RAD (2X Bac				ckground) As			Pb				
Range	5,1	30-5,630 cpm	Point	5,34	7 cpm		violitoring Action Icveis	14,648 cpm		24 ppm		400 ppm				
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log				
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205				
1 2	5	2.5	2.5	2.5	2.5	2.5		SW	10YR3/4	Dry	Medium-Fine Sands, Silt and Gravel.	0.0	49	54	3,940	
4	_					SM	10YR3/6	Moist	Fine Sands, Silt.	0.0	20	20	4,010			
6			_	SW	10YR2/1	Wet	Medium-Fine Sands, Silt, and Gravel. Petroleum Staining.	65.0	17	17	4,080					
7				GW		Gravely Sand	62.0	29	29	3,830						
8	5	4		SM	10YR2/2	Moist	Fine Sands & Organic Material.	02.0	29	29	3,630					
	_			3141	101112/2	Wioise	e sunus a organic material.	4.0	4.5	4.5	3,840					

SOIL BORING LOG SHEET															
BOREHOLE NU	JMBER:	LT-C-057		Instrument			Model Number	Serial Number							
GEOLOGIST:		AR PID:				GM7600		110-009576							
HEALTH TECHNICIAN: MS XRF:			XRF:	Innov-X Systems Inc DS-4000 500301											
WEATHER: Mist 37° SCALER:					Ludlum 2221	udlum 2221 172013/PR156395									
Drilling Method: Air Hammer						orehole Diameter: 2 inch									
Sampling Method: Closed Piston					Borehole Depth:	orehole Depth: 10 feet									
Start Time: 14:05					Commpletion Ti	ommpletion Time: 15:00									
Start Date:		2/21/2014			Completion Date										
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad 14,648			As	Pb			
Range	2,89	0-3,390 cpm	Point	3,23	cpm		Monitoring Action levels				24 ppm	400 ppm			
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log			
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	to 20g			
1 2							SW-SM	10YR3/1	Wet	Well Graded Medium Sand with Silt	0.0	<17	18	5,580	
3	5	3.5		300-300	10YR4/1 Moist	and Gravel	0.0	<15	29	6,275					
5						_			0.0	<4.2	10	4,230			
7	_	5 4					CL 1	10YR5/1		Clayey Sand with Gravel	0.5	<7	3.7	5,685	
8	5					Wet		0.3	ν,	3.7	3,083				
9	-				OL	10YR3/2		Bog	0.0	<4.7	<3	5,170			

SOIL BORING LOG SHEET															
BOREHOLE NU	MBER:	LT-C-058			Instrument:			Model Number		Serial Number					
GEOLOGIST:		TF/AR			PID:	RAE Systems - PGM7600					110-009576				
HEALTH TECHNICIAN: MS				XRF:	Innov-X Systems Inc DS-4000 500301										
WEATHER: Partly Cloudy 22°F					Scaler:	Ludlum 2221									
Drilling Method: Direct Push						Borehole	Diameter:	2 Inch							
Sampling Method: Closed Piston				Borehol	e Depth:	epth: 10 Feet									
Start Time:	Start Time: 8:20				Complet	ion Time:	n Time: 8:50								
Start Date:		2/19/2014				Completion Date: 2/19/2014									
MARRSIM Wal	kover Survey (10)'X10')				Manitoring Action lovels			Rad (2X Bad	Rad (2X Background) As			Pb		
Range	3,175-4,300 cpr	n	Point		3,333	Monitoring Action levels		14,648	14,648 cpm		24 ppm	400 ppm			
Depth	Advanced	Recovery	Graphic	Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	Pb RAD Rhoto Los	Photo Log		
(ft)	(ft)	(ft)				Color			(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log		
0 1 2	. 5	3				10YR5/6	Moist		0.5	3.8	13	5,140			
4						1011.570	Wolst		0.7	2.5	12	4,260			
5					SM			Medium to Fine Silty Sands, Some Gravel.	0.3	2.2	13	4,530			
6															
7						10YR4/1			0.8	< 1.5	12.5	4,650			
8	5	5				101114/1	Wet		5.0	.1.0	12.5	4,050			
9							wet								

4,780

1.2

2.6

10YR5/8

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-060		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Partly Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		8:00			Commpletion Ti	me:	8:30					
Start Date:		2/24/2014			Completion Dat	e:	2/24/2014					
MARRSIM Wal	kover Survey (10)'X10')				Monitoring Action levels		RAD (2X Bad	ckground)	As		Pb
Range	6,12	0-6,950 cpm	Point	6,74	1 cpm		violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	5	4			10YR4/6			0.0	<17	20	8,520	
3				SM	10VP6 /2	Moist	Fine-Medium Silty Sand, Little Rock	0.0	<10	20	8,370	
5			-		10YR6/2			0.0	49	30	8,850	
7					10YR5/6			0.0	<5.9	<7	9,280	
8	5	5 4	SW	10YR5/6		Well Graded Medium Sand with						
9			sw –		10YR5/8		Pebbles	0.0	<8	<8	8,680	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-061		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		8:30			Commpletion Ti	me:	9:00					
Start Date:		2/25/2014			Completion Date	2:	2/25/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,77	'0-6,250 cpm	Point	5,030	0 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1				SW-SM	10YR5/8		Wood, Well Graded Medium Sand with Silt and Gravel	0.0	14	21	7,950	
2	5	4			10YR3/1							
3								0.0	<9	10	8,040	7
4						Dry						1
5			-	SM	10YR4/1		Wood, Silty Sand with Gravel	0.0	<6	12	7,860	1000
В												
7								0.0	<12	<12	7,740	
8	5	3.5										
9			SW-SM	10YR4/3			0.0	<8	<8	7,910	144	
10					Wet		0.0	<8 <8		,		
11	2	2		SW-SM	10YR4/2	WEL	Well Graded Medium Sand with Silt and Gravel		<8	10	8115	
12		2									3 4	

	SOIL BORING LOG SHEET HOLE NUMBER: LT-C-062 Instrument Model Number Serial Number												
BOREHOLE NU	MBER:	LT-C-062		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Partly Cloudy 35°		SCALER:	Ludlum 2221				172013/PR1	56395			
Orilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch						
ampling Meth	nod:	Closed Piston			Borehole Depth:		10 feet						
tart Time:		9:00			Commpletion Ti	me:	11:50						
tart Date:		2/25/2014			Completion Date	e:	2/25/2014						
ARRSIM Wal	kover Survey (10	0'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb	
Range	4,48	30-5,440 cpm	Point	5,66	0 cpm	'	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205	
1 2	5	4						0.0	<4.2	9.4	7,930		
3		·			10YR5/6		Well Graded Fine-Medium Sand with Gravel	0.0	<4.2	12	8,015		
5			_	SW		Moist		0.0	<4.1	7.2	8,120		
7							Well Graded Medium-Coarse Sand with Gravel	0.0	<4.2	<6	7,950		
9	5	4			10YR6/6								

Well Graded Fine-Medium Sand

10

0.0

<3.8

<5.5

8,005

	SOIL BORING LOG SHEET													
BOREHOLE NUMBER:	LT-C-063	Instrument			Model Number		Serial Number							
GEOLOGIST:	AR/TF	PID:	RAE Systems - P	GM7600		110-00957	j.							
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	s Inc DS-4000		500301								
WEATHER:	Partly Cloudy 30°	SCALER:	Ludlum 2221	udlum 2221 172013/PR156395										
Drilling Method:	Direct Push		Borehole Diame	ter:	2 inch									
Sampling Method:	Closed Piston		Borehole Depth	:	12 feet									
Start Time:	12:00		Commpletion Ti	me:	12:30									
Start Date:	2/25/2014		Completion Date	e:	2/25/2014									
MARRSIM Walkover Surve	ev (10'X10')					RAD (2X Background)	As	Pb						

Start Date:		2/25/2014			Completion Date	2:	2/25/2014	_							
MARRSIM Wal	lkover Survey (10	'X10')				,	Monitoring Action levels	RAD (2X Bac	kground)		As	Pb			
Range	4,18	0-5,210 cpm	Point	4,628	3 срт	<u>'</u>	wiorintoring Action levels	14,648	cpm		24 ppm	400 ppm			
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log			
0		.,		SM			Well Graded Fine-Medium Sand with		<5.2	11	8,390				
2	5	4		SW.	10YR5/6		Gravel	0.0	75.2	11	0,330				
3								0.0	<4.7	13	8,010	1 5			
4				SW			Well Graded Fine Sand with Gravel					多道			
5					10YR6/1	Moist		0.0	<4.9	9	9,730	16			
6															
7				CL			Clay	0.0	<5.5	23	8,760				
8	5	5	4												
9								10YR6/6			0.0	<4.3	8	9,280	
10						SW			Well Graded Medium Sand with						
11		4		sw	Wet	Gravel		<3.8	9.3	10,900					
12		·					et								

				SOI	L BORING LOG SHEET						
BOREHOLE NUMBER:	LT-C-064	Instrument:			Model Number		Serial Numbe	er			
GEOLOGIST:	AR/TF	PID:	RAE Systems - Po	GM7600		110-0095	76				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	Inc DS-4000		500301					
WEATHER:	Cloudy 26°	Scaler:	Ludlum 2221			172013/P	R156395				
Drilling Method:	Direct Push		Borehole Diameter: 2 Inch								
Sampling Method:	Closed Piston		Borehol	e Depth:	12 Feet						
Start Time:	12:50		Complet	ion Time:	13:25						
Start Date:	2/26/2014		Completion Date: 2/26/2014								
MARRSIM Walkover Surve	ey (10'X10')			Monitoring Action levels		Rad (2X Background)	As	Pb			
		F 03		'	vioriitoring Action levels	11.610	24	400			

Start Date:	ARRSIM Walkover Survey (10'X10')					ion Date:	2/26/2014							
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac	kground)		As	Pb		
Range	4,610	0-5,220 cpm	Point	5,034	1 cpm	ŗ	vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log		
0					10YR5/6			0.0	<5.4	17	4,350			
2	5	4												
3								0.0	<6	12	4,675			
4					10YR4/6									
5			_	SM			Silty Sand, Some Rock	0.0	<4.6	7	4,235	27/3/		
6						Moist								
7					10YR5/8			0.0	<5.9	<8	4,260			
8	5	5												
9										0.0	<6	<8	4,965	
10					10YR6/6			5.5		-5	.,505			
11	2	2.5		SW			Well Graded Fine-Medium Sand with	0.0	11.9	19	4,910			
12	_			SW			Gravel				.,===			

	SOIL BORING LOG SHEET OLE NUMBER: LT-C-065 Instrument: Model Number Serial Number													
BOREHOLE NU	MBER:	LT-C-065		Instrument:			Model Number				Seria	al Number		
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576					
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301					
WEATHER:		Cloudy 26°		Scaler:	Ludlum 2221				172013/PR1	56395				
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch							
Sampling Metl	nod:	Closed Piston			Boreho	le Depth:	12 Feet							
Start Time:		8:45			Complet	tion Time:	9:15							
Start Date:		2/26/2014			Complet	tion Date:	2/26/2014							
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	Rad (2X Bac	- -			Pb		
Range	4,76	50-5,530 cpm	Point	5,554	4 cpm		violitoring Action levels	14,648	cpm	24 ppm		400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 2005		
0 1 2 3	. 5	3		SM	10YR3/3		Silty Sand with Gravel	0.0	<7	41	4,820			
5				CL		Moist	Sandy Clay	0.0	<10	54	4,075			
7	. 5	4			10YR6/6			0.0	<5.4	13	4,120			

Well Graded Fine-Medium Sand with

Gravel

0.0

0.0

<4.7

<5.4

7

<8

4,080

4,260

SW

10YR5/8

9

10

11

12

2

2.5

	SOIL BORING LOG SHEET														
BOREHOLE NUMBER:	LT-C-066	Instrument:			Model Number			Serial Number							
GEOLOGIST:	AR/TF	PID:	RAE Systems - Po	GM7600		110	10-009576								
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000				500301								
WEATHER:	Cloudy 26°	Scaler:	Ludlum 2221				172013/PR156395								
Drilling Method:	Direct Push		Borehole Diameter: 2 Inch												
Sampling Method:	Closed Piston		Borehole Depth: 12 Feet												
Start Time:	9:40		Completion Time: 10:15												
Start Date:	2/26/2014		Completion Date: 2/26/2014												
MARRSIM Walkover Survey	(10'X10')			Monitoring Action levels			round)	As	Pb						

Start Date:		2/26/2014			Complet	ion Date:	2/26/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac			As	Pb
Range	4,84	0-5,690 cpm	Point	5,069	9 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2				SM	10YR3/3		Silty Sand with Gravel	0.0	17	44.1	5,010	
3	5	4			10005 (2			0.0	<7	<10	4,640	
5			-	CL	10YR6/3	Moist	Sandy Clay	0.0	<6	11	4,580	
6												ALE EST
7	5	5						0.0	<7	10	4,235	
9				SW	10YR7/6		Well Graded Fine-Medium Sand with Gravel	0.0	<5.5	10	3,960	
11	- 2	4.5			10YR6/8	Wet		0.0	<7	<11	3,780	
12												

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-067		Instrument:			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 26°		Scaler:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Meth	nod:	Closed Piston			Borehol	le Depth:	12 Feet					
Start Time:		10:30			Complet	ion Time:	11:10					
Start Date:		2/26/2014			Complet	tion Date:	2/26/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	Rad (2X Bad	ckground)		As	Pb
Range	4,56	60-5,580 cpm	Point		1 cpm	,"	World The Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2		2.5			10YR4/4			0.0	<5.9	12	4,385	
3				SM			Silty Sand with Gravel	0.0	<7	30	4,620	
5			_		10YR5/8	Moist		0.0	<8	66	4,100	
7	_							0.0	<6	13	4,970	
8	5	3										
10				SW	10YR8/3		Well Creded Fine Card	0.0	<9.6	<7	4,605	
11				SW			Well Graded Fine Sand					

10YR8/1

2.5

12

5,060

<4 <6

0.0

				SOI	L BORING LOG SHEET					
BOREHOLE NUMBER:	LT-C-068	Instrument:			Model Number			Serial Numb	er	
GEOLOGIST:	AR/TF	RAE Systems - PG	iM7600		1	110-009576				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems I	Inc DS-4000						
WEATHER:	Cloudy 26°	Ludlum 2221			1	172013/PR156	5395			
Drilling Method:	Direct Push		Borehole D	Diameter:	2 Inch					
Sampling Method:	Closed Piston		Borehole	Depth:	12 Feet					
Start Time:	11:30		Completio	on Time:	12:00	2:00				
Start Date:	2/26/2014		Completio	on Date:	2/26/2014					
	(4.0)(4.0))					Rad (2X Back	ground)	Δς	Ph	

Start Date:		2/26/2014			Complet	ion Date:	2/26/2014	1		1		
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bac			As	Pb
Range	4,45	0-5,720 cpm	Point		3 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Eog
0					10YR3/2			0.0	6.2	25	5,190	
2	5	4										
3				SM			Silty Sand	0.0	<5.3	12	4,430	
4					10YR4/6							
5			_			Moist		0.0	<4.6	14	4,075	
6												
7								0.0	<7	14	4,525	
8	5	4			10YR6/1		Well Graded Fine Sand, Little Rock					
9				SW				0.0	<5.7	15	4,810	
10											,,===	
11	2	2.5			10YR5/8	Dry	Well Graded Fine-Medium Sand,	0.0	<4.5	14	4,680	
12		2.3			101113/3		Little Rock	0.0	74.3	17	4,000	

						SOI	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-069		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 30°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		14:00			Commpletion Ti	me:	14:20					
Start Date:		2/25/2014			Completion Date	e:	2/25/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Nonitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,90	00-6,115 cpm	Point	5,922	2 cpm	,	Notificating Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	4		SW-SM	10YR6/2		Well Graded Fine-Medium Sand with Silt and Gravel	0.0	<4.6	7	7,660	
4					10YR4/1	Moist		0.0	<4.9	9	8,110	
6								0.0	<4.4	14	8,360	
7				CL	10YR5/6		Sandy Clay with Gravel	0.0	6.5	11	8,520	
8	5	5				Wet						
9					10YR5/3			0.0	5.6	12	7,930	
10												

				SOIL BORING LOG SHEET					
BOREHOLE NUMBER:	LT-C-070	Instrument:		Model Number			Se	rial Number	
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600		1	110-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-400	00	5	500301			
WEATHER:	Cloudy 26°	Scaler:	Ludlum 2221		1	L72013/PR15	6395		
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch					
Sampling Method:	Closed Piston		Borehole Depth:	12 Feet					
Start Time: 12:00 Completion Time: 12:40									
Start Date:	2/26/2014		Completion Date:	Date: 2/26/2014					
	440		_		Pad /2V Pack	around)	Λc		Dh

Start Date:		2/26/2014			Complet	ion Date:	2/26/2014						
MARRSIM Wal	lkover Survey (10	'X10')				,	Monitoring Action levels	Rad (2X Bac	kground)		As	Pb	
Range	5,15	0-6,620 cpm	Point	5,800) cpm	ľ	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11000 205	
1 2					10YR3/4			0.0	<4.9	23	4,545		
3	5	3.5						0.0	5.5	<7	4,140		
5					10YR6/8			0.0	<8	14	4,510		
6				SW-SM		Moist	Well Graded Fine-Medium Sand with Silt and Gravel						
7	_	_						0.0	<5.9	<8	4,030	173	
8	5	5			10YR5/8								
9								0.0	<5.6	10	4,250		
10								5.5	3.0	10	1,250		
11	2	2.5			10YR5/6			0.0	<6	<8	4,140		
12		2.5	2.5			101113/0			0.0	, ,		4,140	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-C-071		Instrument:			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Cloudy 26°		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Meth	nod:	Closed Piston			Boreho	le Depth:	12 Feet					
Start Time:		13:30			Complet	tion Time:	14:00					
Start Date:		2/26/2014			Complet	tion Date:	2/26/2014					
MARRSIM Wal	kover Survey (10	D'X10')				,	Monitoring Action levels	Rad (2X Bac	kground)		As	Pb
Range		60-7,080 cpm	Point	6,069	9 срт	<u>'</u>	violitioning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T HOLO LOG
2 3	5	4.5			10YR3/3			0.0	<4.8 <7	<5.1	3,950 4,210	
5					10YR5/6			0.0	<11	<15	3,760	
6				SM		Moist	Silty Sand with Gravel	0.0	\11	113	3,700	
7								0.0	<9	<14	4,000	
8	5	4										

<4.5

<3.8

0.0

0.0

4,160

4,220

8.5

<5.4

10YR5/8

10

11

12

							SOI	BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-C-072			Instrument:			Model Number				Seria	al Number	
GEOLOGIST:		AR/TF			PID:	RAE Systems - P	GM7600			110-009576				
HEALTH TECHN	110,7111	MS			XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Partly Cloudy 25°			Scaler:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Hand Geoprobe				Borehole	Diameter:	2 Inch						
Sampling Meth	nod:	Macro Core				Boreho	le Depth:	12 Feet						
Start Time:		8:50				Complet	ion Time:	9:50						
Start Date:		2/27/2014				Complet	ion Date:	2/27/2014						
MARRSIM Wal	kover Survey (1	0'X10')						Monitoring Action levels	Rad (2X Bad	kground)		As	Pb	
Range	3,09	95-3,840 cpm	Point		3,60	2 cpm	ı,	vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advanced	Recovery	Graphi	c Log	USCS Code Soil		Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log	
1 2	3	1				10YR5/6			0.0	<4.3	10	4,035		
4			_						Silty Sand	0.0	<6	12	5,210	No.
5	3	2			SM		Dry		0.0	<4.9	17	5,060		
7						10YR6/6			0.0	<5.2	18	4,760		
8	3	3												
9			_						0.0	<4.3	15	4,835		

Silty Sand with Gravel

Moist

0.0

<4

7.6

4,701

11

12

3

				SOI	L BORING LOG SHEET						
BOREHOLE NUMBER:	LT-C-073	Instrument:			Model Number		Serial Number				
GEOLOGIST:	AR/TF	PID:	RAE Systems - P	GM7600		110-009576					
HEALTH TECHNICIAN:	MS	XRF:	: Innov-X Systems Inc DS-4000 500301								
WEATHER:	Partly Cloudy 25°	Scaler:	Ludlum 2221		172013/PR156395						
Drilling Method:	Hand Geoprobe		Borehole	Diameter:	2 Inch						
Sampling Method:	Macro Core		Boreho	le Depth:	12 Feet						
Start Time:	9:55		Complet	tion Time:	10:30						
Start Date:	2/27/2014		Completion Date: 2/27/2014								
MARRSIM Walkover Surve	ey (10'X10')				Monitoring Action Invole	Rad (2X Background)	As	Pb			
			Monitoring Action levels								

MARRSIM Wal	lkover Survey (10	1'Y10')					2/2//2014	Rad (2X Bac	kground)		As	Pb
Range		0-4,620 cpm	Point	4,492	2 cpm	N	Monitoring Action levels	14,648			24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	
(ft)	(ft)	(ft)	, ,		Color	Content	•	(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2	3	1.5			10YR2/2			0.0	21	60	4,330	
3								0.0	<3.8	<5.4	4,930	
4								0.0	3.0	5	,,,550	
5	3	2						0.0	<4.7	8	5,090	
6			_	SM		Dry	Silty Sand with Gravel					
7	-				10YR6/6			0.0	<4	9.6	4,920	
8	3	2.5										
9			_					0.0	5.7	<6	5,050	
10	-											
11	3	2						0.0	4.9	9.2	5,035	
12												

			S	OIL BORING LOG SHEET					
BOREHOLE NUMBER:	LT-C-074	Instrument:		Model Number		Serial Number			
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600		110-009576	ō			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000)	500301				
WEATHER:	Partly Cloudy 25°	Scaler:	Ludlum 2221		172013/PR	156395			
Drilling Method:	Hand Geoprobe		Borehole Diameter:	2 Inch					
Sampling Method:	Macro Core		Borehole Depth:	12 Feet					
Start Time:	10:50		Completion Time:	11:40					
Start Date:	2/27/2014		Completion Date:	n Date: 2/27/2014					
		•			Pad (2V Paskground)	Ac	Db		

Start Date:		2/2//2014			Complet	ion Date:	2/27/2014					
MARRSIM Wal	lkover Survey (10	'X10')					Monitoring Action levels	Rad (2X Bad	kground)		As	Pb
Range	3,25	0-3,900 cpm	Point	3,27	6 cpm	Į,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	I Hoto Edg
1	3	2.5						0.0	<4.9	16	2,315	
2	3	2.5										
3								0.0	<5.2	17	2,570	
4												
5	3	2						0.0	<4.2	7.5	2,805	
6				SM	10YR4/6	Dry	Silty Sand with Gravel					5
7								0.0	<4.5	11	2,655	
8	3	2										
9								0.0	<4.2	9	2,690	
10												
11	3	2						0.0	<7	<9	2,550	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-075		Instrument			Model Number				Seria	l Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 8°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		7:40			Commpletion Ti	ime:	8:00					
Start Date:		3/4/2014			Completion Dat	e:	3/4/2014					
MARRSIM Wa	lkover Survey (10)'X10')				J ,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,84	10-4,890 cpm	Point	4,53	6 cpm	· ·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	(11)		SM	10YR5/4	Moist	Snow, Silty Sand with Gravel	0.0	<11	13	4,640	
4		3		SW	10YR4/6		Well Graded Medium Sand with	0.0	<62	<73	4,830	
5			_				Gravel	0.0	<35	<38	4,760	
6					Wet							
7	5	5		GW	10YR4/4		Gravelly Medium Sand	0.0	<26	<31	5,015	
ŭ		5 5		GW			Stavelly Mediatit Saffa					

0.0

Well Graded Medium Sand with

Gravel

SW

10YR5/6

<12

<14

4,940

9

							SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-C-076			Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR			PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS			XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 8°			SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push				Borehole Diamet	ter:	2 inch					
Sampling Metl	hod:	Closed Piston				Borehole Depth:		10 feet					
Start Time:		8:05				Commpletion Tir	me:	8:15					
Start Date:		3/4/2014				Completion Date	2:	3/4/2014					
MARRSIM Wal	lkover Survey (10)'X10')					,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,07	5-3,690 cpm	Point		3,31	5 cpm	'	World Hig Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic	.og	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)				Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	- 5	3				10YR3/4	Moist		0.0	<34	<42	4,780	
4 5					SM	10YR3/1 10YR3/4 10YR2/4		Snow, Silty Sand with Gravel	0.0	<13	<16	4,930	
6						10YR3/4			0.0	<15	<15	4,870	
7				_		Wet		0.0	<7	26	5,100		
8	5	4				10YR4/4		Silty Sand					
9									0.0	<16	<17	4,970	

Silt

ML

				SOIL E	BORING LOG SHEET					
BOREHOLE NUMBER:	LT-X-001	Instrument			Model Number			Serial Numb	er	
GEOLOGIST:	AR	PID:	RAE Systems - PGN	M7600		11	10-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems In	nc DS-4000		50	00301			
WEATHER:	Clouds 36°	SCALER:	Ludlum 2221			17	172013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter	er: 2	2 inch					
Sampling Method:	Closed Piston		Borehole Depth:	1	12 feet					
Start Time:	10:45		Commpletion Time	e: 1	1:35					
Start Date:	1/16/2014		Completion Date:	etion Date: 1/16/2014						
MARRSIM Walkover Surve	ey (10'X10')		RAD (2X			ground)	As	Pb		
	5 000 C 500			Monitoring Action levels			4.648 cpm 24.ppm 400.ppm			

Start Date:		1/16/2014			Completion Date	1	1/16/2014			1		
MARRSIM Wal	lkover Survey (10	'X10')	1	1			Monitoring Action levels	RAD (2X Bad			As	Pb
Range	5,80	0-6,500 cpm	Point	6,361	l cpm	·	3	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1.1010 226
0	-											
1	-							0.0	5	25	NA	A STATE OF THE STA
2	- 5	3		SM	10YR4/3	Moist	Wood, Grass, Silty Sand with Gravel.					
3	_							0.0	9	32	6450	
4												
5				0.11.01.1	10/27/2		Well Graded, Medium Sand with Silt					
6				SW-SM	10YR5/4		and Gravel	0.0	3	6	6700	
7				SP-SM	10YR5/5	Dry	Poorly Graded Medium Sand and	0.0	7	<3	6400	
8	5	3		3F *3IVI	1011(3)3		Gravel.	0.0	,	,	0400	
9					10YR5/3	Moist		0.0	12	9	6750	
10				SW-SM			Well Graded, Medium Sand with Silt		12	<i>3</i>	0730	
11	- 2	2		300-3101	10YR5/8	Wet	and Gravel	0.0	<3	11	6500	
12	2	2						0.0	ζ3	11	0500	

			SOII	BORING LOG SHEET	
BOREHOLE NUMBER:	LT-X-002	Instrument		Model Number	Serial Number
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		110-009576
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301
WEATHER:	Clouds 38°	SCALER:	Ludlum 2221		172013/PR156395
Drilling Method:	Direct Push		Borehole Diameter:	2 inch	
Sampling Method:	Closed Piston		Borehole Depth:	12 feet	
Start Time:	11:50		Commpletion Time:	12:30	
Start Date:	1/16/2014		Completion Date:	1/16/2014	

Start Date.		1/10/2014			Completion Date	-	1/10/2014	RAD (2X Bac	kground)		As	Pb
	lkover Survey (10		D-i-t	4.44	1	N	Monitoring Action levels	14,648			24 ppm	400 ppm
Range		0-4,500 cpm	Point		1 cpm		6.15			D.	1	чоо ррпп
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1								0.0	3	7	6100	
2	5	2.5			10YR6/4							
3				SM			Silty Sand and Gravel	0.0	8	11	6270	
4												
5					10YR5/2			0.0	<4	12	6800	
6						Moist						
7				SW-SM	10YR4/6		Well Graded, Medium Sand with Silt	0.0	<1.8	8	7100	
8	5	3			10YR5/6		and Gravel					
9	-							0.0	1.7	7.6	6950	
10				ML			Silt with Gravel					
11	2	2			10YR4/1			0.0	<47	20	6800	
12				SC			Clayey Sand					

				SOI	L BORING LOG SHEET					
BOREHOLE NUMBER:	LT-X-003	Instrument			Model Number			Serial Num	ber	
GEOLOGIST:	AR	PID:	RAE Systems - PGI	M7600		110-	-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems I	Inc DS-4000		500	301			
WEATHER:	Clouds 38°	SCALER:	Ludlum 2221			172	172013/PR156395			
Drilling Method:	Direct Push		Borehole Diamete	er:	2 inch					
Sampling Method:	Closed Piston		Borehole Depth:		12 feet					
Start Time:	13:20		Commpletion Tim	ne:	13:53					
Start Date:	1/16/2014		Completion Date:	1/16/2014						
MARRSIM Walkover Surve	ey (10'X10')		RAD (2X			ound)	As	Pb		
	4.500.4.740		22	Monitoring Action levels			4.648.com 24.nom 400.nom			

Start Date:		1/16/2014			Completion Date	2:	1/16/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,56	0-4,710 cpm	Point	4,692	2 cpm	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0												
2					10YR3/2			0.0	7	26	6750	
	5	4										
3	-			SM			Silty Sand and Gravel	0.0	<5	16	6800	
4					10YR4/4							
5					,			0.0	<3	19	7020	
6						Dry						
7								0.0	<4	15	6980	
8	5	3		SW-SM	10YR4/6		Well Graded, Medium Sand and Gravel					
9				344 3141				0.0	3	11	6890	
10					10YR5/4		Crushed Brick	0.0	,	11	0050	
11	2	3		CL	10YR4/4		Clay	0.0	<2	21	6710	
12	2	3		CL .	101114/4		Clay	0.0	~~	21	0/10	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-X-004		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 25°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		8:00			Commpletion Ti	me:	8:50					
Start Date:		1/17/2014			Completion Dat	e:	1/17/2014					
MARRSIM Wal	lkover Survey (10	D'X10')		1		١,	Monitoring Action levels	RAD (2X Bad			As	Pb
Range	4,85	0-6,210 cpm	Point	5,42	4 cpm	·		14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1 2 3 4	- 5	3		sw	10YR4/4 10YR4/6 10YR3/6	Dry Moist	Asphalt, Well Graded Medium Sand with Gravel	0.0	9	13	NA 7640 7820	
8	5	3		SM	10YR4/6 10YR4/4	Dry	Silty Sand	0.0	3	8	7700	

Well Graded Medium Sand with

Gravel

0.0

3.2

3.7

7400

10

11

12

2

1.5

SW

10YR4/6

Moist

						SOII	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-X-005		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 25°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:00			Commpletion Ti	me:	9:20					
Start Date:		1/17/2014			Completion Date	2:	1/17/2014					
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bac	ckground)		As	Pb
Range	5,40	0-6,500 cpm	Point	6,315	5 срт	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0					10YR4/3			0.0	13	143	NA	
2	5	1.5				Dry						
4				SW-SM	10YR4/6		Asphalt, Well Graded Medium Sand with Silt and Gravel	0.0	7	8	7900	
5								0.0	<3	23	6315	7
7	5	2			10YR3/2	Moist		0.0	6	9	8050	
9								0.0	<2	7	7880	
11	2	2		SW	10YR4/6	Wet	Well Graded Medium Sand with Gravel	0.0	<3	32	8100	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-X-006		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 35°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		9:35			Commpletion Ti	me:	10:40					
Start Date:		1/17/2014			Completion Date	e:	1/17/2014					
MARRSIM Wal	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	4,55	50-5,900 cpm	Point	7,63	7 cpm	ľ	Worldoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0 1 2 3 4 5 5	5	2.5		SW-SM	10YR4/3	Moist	Asphalt, Well Graded Medium Sand with Some Silt and Gravel	0.0	4	79 53	7250	
6				SC			Clayey Sand with Gravel	0.0	11.0	Ů	7300	
7				SW	10//02/2		Well Graded Medium Sand with Gravel	0.0	-	16	0120	
8	5	4.5			- 10YR3/2			0.0	5	16	8120	
9]			SC			Clayey Sand	0.0	<3	20	7760	
10												

Well Graded Medium Sand with

Gravel

Clayey Sand with Gravel

0.0

<3

9

7430

10YR4/6

Wet

SW

SC

11

12

				SC	IL BORING LOG SHEET				
BOREHOLE NUMBER:	LT-X-007	Instrument			Model Number		Serial Numbe	r	
GEOLOGIST:	AR	PID:	RAE Systems - PG	GM7600		110-00957	¹ 6		
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	Inc DS-4000		500301			
WEATHER:	Sunny 35°	SCALER:	Ludlum 2221			172013/P	R156395		
Drilling Method:	Direct Push		Borehole Diamet	ter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth:		12 feet				
Start Time:	10:50		Commpletion Time: 11:15						
Start Date:	1/17/2014	•	Completion Date	oletion Date: 1/17/2014			_		
MARRSIM Walkover Survey	/ (10'X10')				Manitaring Action levels	RAD (2X Background)	As	Pb	

Start Date:		1/17/2014			Completion Date	2:	1/17/2014					
MARRSIM Wal	kover Survey (10	'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,28	0-6,510 cpm	Point	4,466	5 срт	יו	vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0	, ,	. ,						,	,	,,,,		
1								0.0	7	54	7890	
2	5	2.5		SM	10YR4/6	Dry	Asphalt, Silty Sand with Gravel					
3								0.0	<3	21	8070	
4												
5			-					0.0	<2	10	8160	
6				SW	10YR6/1		Well Graded Medium Sand with Gravel					
7						Moist		0.0	<1.5	10	8340	
8	5	3										
9				ML			Silt	0.0	<1.8	13	7960	
10					10YR4/1							
11	2	1.5		SW		Wet	Well Graded Medium Sand with Gravel	0.0	<1.9	11	8120	
12												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-X-008		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 29°		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth		Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:20			Commpletion Ti	me:	10:00					
Start Date:		1/27/2014			Completion Date	e:	1/27/2014					
	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,10	0-4,700 cpm	Point	4,228	3 срт	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
0				SW-SM	10YR4/2		Asphalt, Well Graded Medium Sand with Silt and Gravel	0.0	10	34	7,250	
2	5	4				Dry						
3				ML	10YR4/4	R4/4	Silt	0.0	8	22	7,340	
4					10YR4/4						,	
5								0.0	6	10	7,380	
6				SM			Silty Sand with Gravel					
7					10YR3/2	Moist		0.0	5	16	7,200	
8	5	4.5			10YR6/2			5.0	, 	10	7,200	
9					10YR5/6			0.0				1
10									64	75	7,210	
11	2	2		ML	ML 10YR4/1		Silt with Gravel	0.0	11	10	7,300	

						SOII	L BORING LOG SHEET								
BOREHOLE NU	MBER:	LT-X-009		Instrument			Model Number				Seri	al Number			
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576						
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301						
WEATHER:		Cloudy 29°		SCALER:	Ludlum 2221				172013/PR1	56395					
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch								
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet								
Start Time:		10:20			Commpletion Ti	me:	10:55								
Start Date:		1/27/2014			Completion Date	2:	1/27/2014								
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb			
Range	4,26	60-4,810 cpm	Point	4,447 cpm USCS Code Soil		iviolitoring Action levels 14		14,648	cpm	24 ppm		400 ppm			
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log			
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log			
1				SW-SM	10YR4/3		Asphalt, Well Graded Medium Sand with Silt and Gravel	0.0	42	42	6,980				
2	5	3.5													
3			3.5	3.5	3.5			10VR4/2	Dry		0.0	<6	54	7,160	
4			CNA	101114/2	10YR4/2	Cilles Consul	0.0	\	54	7,100					
5		SM					Silty Sand								

0.0

0.0

0.0

0.0

Clayey Sand

Well Graded Medium Sand with Silt

and Gravel

Well Graded Medium Sand with

Gravel

8

<5

15

1.9

8

14

12

4.7

7,320

7,460

7,110

7,230

10YR5/4

10YR5/6

10YR5/3

10YR3/6

10YR4/1

Wet

SC

SW-SM

SW

6

7

8

9

10

11

12

5

						SOII	BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-G-001		Instrument			Model Number				Seri	al Number
GEOLOGIST:		JE		PID:	RAE Systems - Pi				110-009576			
HEALTH TECH WEATHER:	NICIAN:	MS Mostly Cloudy 35°F		XRF: SCALER:	Innov-X Systems Ludlum 2221	Inc DS-4000			500301 172013/PR1	F.C.20F		
Drilling Metho	d:	Mud Rotary		SCALEN.	Borehole Diame	ter:	2 inch		172013/FKI	00373		
Sampling Met		Split Spoon			Borehole Depth:		102 feet					
Start Time:		8:00			Commpletion Ti	me:	15:00					
Start Date:		1/27/2014			Completion Date	2:	1/27/2014					
	lkover Survey (10		Point	F 40	9 cpm		Monitoring Action levels	RAD (2X Ba 14,648			As 24 ppm	Pb 400 ppm
Range Depth	Advance	10-6,210 cpm Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2	2	1.7			10YR4/2	Dry	Medium-Fine Sands, Some Silt.	0.0	< 18	< 25	4,690	
3	2	1.7		sw	10YR4/4	Moist	Medium-Fine Sands, Some Silt, Some Gravel.	0.0	< 7	16	4,340	
5	2	1.3				Wet	Fine to Coarse Sands, trace Gravel.	0.0	< 8	< 11	4,580	
7	- 2	0.8			10YR4/2	Total Viet		0.0	< 4.4	7	4,620	
9	- 2	0										
11	- 2	1.5						0.0	< 5.6	16	5,360	
13	- 2	1.7						0.0	< 4.8	16	4,810	
15 16	- 2	1.8		CL	10YR4/1	Wet	Clay	0.0	< 8	21	4,640	
17	2	1.7						0.0	< 5.6	19	5,060	
19	2	2						0.0	< 5.7	20	5,740	

		SOIL BORING LOG SHEET [.T-G-001 Instrument Model Number Serial Number										
BOREHOLE NU	MBER:	LT-G-001		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Mostly Cloudy 35°F		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method		Mud Rotary			Borehole Diame		2 inch					
Sampling Meth	nod:	Split Spoon			Borehole Depth		102 feet					
Start Time:		8:00			Commpletion Ti		15:00					
Start Date:		1/27/2014			Completion Date	9:	1/27/2014			1		
MARRSIM Wall						N	Monitoring Action levels	RAD (2X Bar 14,648			As 24 ppm	Pb 400 ppm
Range		10-6,210 cpm	Point									400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Color Content (ppm)				As (ppm)	Pb	RAD	Photo Log
(IL)	(11)	(IL)			Color Content (ppm)					(ppm)	(cpm)	
21												
22												
22												
23												
24												
25												
	2	2		CL	10YR4/1	Wet	Clay	0.0				
26												
												2
27												
27												
28												
29												
30												
	2	1.5		CL	10YR4/2	Wet	Clay	0.0				
31												
												The same of the sa
22												
32												
33												
34												
												11
35												
	2	1.8		CL	10YR4/1	Wet	Clay	0.0				
36												
												All and I
I]												
37												
38												
39												
33												

		SOIL BORING LOG SHEET LT-G-001 Instrument Model Number Serial Number										
BOREHOLE NU	JMBER:	LT-G-001					Model Number				Seria	al Number
GEOLOGIST:		JE			RAE Systems - P				110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER: Drilling Metho	di	Mostly Cloudy 35°F Mud Rotary		SCALER:	Ludlum 2221 Borehole Diame	tor	2 inch		172013/PR1	ob395		
Sampling Metho		Split Spoon			Borehole Depth		2 inch 102 feet					
Start Time:	ilou.	8:00			Commpletion Ti		15:00					
Start Date:		1/27/2014			Completion Date		1/27/2014					
	lkover Survey (10						fonitoring Action levels	RAD (2X Ba	kground)		As	Pb
Range	5,14	0-6,210 cpm	Point	5,499	Э срт	iv	ionitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
40	2	2		CL	10YR4/1	Wet	Clay	0.0				
42												
43												
45	2	2 CL			10YR4/2	Wet	Clay	0.0				
46												
47												
48												
49												1-5-
50	2	2		CL	10YR4/1	Wet	Clay	0.0				
51												
52												
53												
54												
55	2	2		CL	10YR4/1	Wet	Clay	0.0				
56												
57												
58												
59												

						SOII						
BOREHOLE NU	JMBER:	LT-G-001		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JE			RAE Systems - Pi				110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER: Drilling Metho	di	Mostly Cloudy 35°F Mud Rotary		SCALER:	Ludlum 2221 Borehole Diame	tor	2 inch		172013/PR1	ob395		
Sampling Meth		Split Spoon			Borehole Depth:		102 feet					
Start Time:		8:00			Commpletion Ti		15:00					
Start Date:		1/27/2014			Completion Date		1/27/2014					
MARRSIM Wal	lkover Survey (10		1				Monitoring Action levels	RAD (2X Bac			As	Pb
Range		10-6,210 cpm	Point		9 cpm			14,648			24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
60	- 2	2		CL	10YR4/1	Wet	Clay	0.0	(рршу	(ррш)	(сріп)	
62												
64												
65												
66	2	2 CL		10YR4/1	Wet	Clay	0.0					
67												
68												
69												18
70	2	2		CL	10YR4/1	Wet	Clay	0.0				
71												į
72												
73												
74												
75	2	2		CL	10YR4/1	Wet	Clay	0.0				
76												
77												
78												
79												

		SOIL BORING LOG SHEET LT-G-001 Instrument Model Number Serial Number										
BOREHOLE NU	JMBER:	LT-G-001									Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P				110-009576			
HEALTH TECHI WEATHER:	NICIAN:	MS Mostly Cloudy 35°F		XRF: SCALER:	Innov-X Systems Ludlum 2221	Inc DS-4000			500301 172013/PR1	:630E		
Drilling Metho	ıd:	Mud Rotary		JUNELIN.	Borehole Diame	ter:	2 inch		12/2013/FKI	,0333		
Sampling Meth		Split Spoon			Borehole Depth		102 feet					
Start Time:		8:00			Commpletion Ti		15:00					
Start Date:		1/27/2014			Completion Date	2:	1/27/2014					
	lkover Survey (1	0'X10') 10-6,210 cpm	Point	F 400	9 cpm	N	Monitoring Action levels	RAD (2X Bar 14,648			As 24 ppm	Pb 400 ppm
Range Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	
(ft)	(ft)	(ft)	p		Color Content (ppm					(ppm)	(cpm)	Photo Log
80	2	2		CL	10YR4/1	Wet	Clay	0.0				
82												
84												
85	- 2	2		CL	10YR4/1	Wet	Clay	0.0				
86												
87												
88	-											
89												
90	2	2		CL	10YR4/1	Wet	Clay	0.0				
91												
92												
94	_											
95												
96	2	1		SW	10YR4/1	Wet	Medium-Fine Sands, Some Silt.	0.0				
												77-701
97	_											
98												
	-											
100			<u> </u>									

						SOII	BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-G-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P				110-009576			
HEALTH TECH WEATHER:	NICIAN:	MS Clear 10°F		XRF: SCALER:	Innov-X Systems Ludlum 2221	Inc DS-4000			500301 172013/PR15	FCOOF		
Drilling Metho	d:	Mud Rotary		SCALER:	Borehole Diame	ter:	2 inch		1/2013/PK1	50395		
Sampling Met		Split Spoon			Borehole Depth		102 feet					
Start Time:		8:00			Commpletion Ti		15:00					
Start Date:		1/28/2014			Completion Date	e:	1/28/2014			ı		T.
	kover Survey (1		Point	7.00		N	Monitoring Action levels	RAD (2X Bad 14,648			As 24 ppm	Pb 400 ppm
Range Depth	Advance	10-7,500 cpm Recovery	Graphic Log	USCS Code	5 cpm Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2	2	1.2			10YR4/2	Moist	Medium-Fine Sands.	0.5	< 1.7	19	3,550	
4	2	1.5		sw	10YR4/6			0.5	7.4	12	3,960	
5	2	1.7					Fine to Coarse Sands.	0.3	< 1.5	12	6,420	
7	2	1.7			10YR4/3		Medium-Fine Sands	0.3	< 1.5	9.8	6,380	
9	- 2	1		sc	10YR4/2		Clayey Sand	0.3	6	14	6,250	
11	- 2	0.7		SW	10YR4/3		Medium-Fine Sands	0.3	4.1	15	6,370	
13	- 2	1.3		sc	10YR4/6	Wet	Clayey Sand	0.2	4	14	6,220	
15	2	1.2					Clay	0.2	< 1.8	31	6,340	
17	- 2	1.2		CL	10YR4/1			0.2	< 1.5	12	6,110	
19	- 2	1.3						0.1	2	22	5,960	

		SOIL BORING LOG SHET LT-G-002 Instrument Model Number Serial Number										
BOREHOLE NU	IMBER:	LT-G-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clear 10°F		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Methor		Mud Rotary			Borehole Diame		2 inch					
Sampling Meth	nod:	Split Spoon			Borehole Depth		102 feet					
Start Time:		8:00			Commpletion Ti		15:00					
Start Date:		1/28/2014			Completion Date	9:	1/28/2014					
	kover Survey (10					N	Monitoring Action levels	RAD (2X Bad 14,648			As	Pb
Range		10-7,500 cpm	Point		5 cpm						24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
21	(14)	(-7				33111011		(PP)	(FF)	(PP)	(5,5)	
22												
23												
24												
25	2	1		CL	10YR4/4	Wet	Clay	0.1	< 1.8	20		
26												
27												
28												
29												
30	2	0.9		CL	10YR4/1	Wet	Clay	0.2	< 1.9	36		
31												
32												
33												
34												
35	2	1.2		CL	10YR4/1	Wet	Clay	0.1	< 1.8	13		
36												
37												
38												
39												

		SOIL BORING LOG SHEET										
BOREHOLE NU	JMBER:						Model Number				Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P				110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:	.d.	Clear 10°F		SCALER:	Ludlum 2221		2 inch		172013/PR1	56395		
Drilling Metho Sampling Methor		Mud Rotary Split Spoon			Borehole Diame Borehole Depth		2 inch 102 feet					
Start Time:	nou.	8:00			Commpletion Ti		15:00					
Start Date:		1/28/2014			Completion Date		1/28/2014					
MARRSIM Wa	lkover Survey (10		1			N	Monitoring Action levels	RAD (2X Bad			As	Pb
Range	1	0-7,500 cpm	Point		5 cpm		T.	14,648			24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
40	- 2	0.7		CL	10YR6/1	Wet	Clay	0.1	< 1.8	18	(сріп)	
												3
42	_											
43	-											
44												
45	2	1.2	1.2 SM			Wet	Fine Sands	0.2	2.8	6.4		
46												
47	-											
48	_											
50	- 2	1.3		SC	10YR4/1	Wet	Sandy Clay	1.0	< 2	20		
52	=											
53	_											
54												
55	2	1.5		sc	10YR4/1	Wet	Sandy Clay	0.2	3.1	16		
56												
57	=											
58	-											
59												

BOREHOLE NUME GEOLOGIST: HEALTH TECHNIC WEATHER: Drilling Method:		LT-G-002 JE											
HEALTH TECHNIC WEATHER:		JE							110-009576				
WEATHER:	CIAN:				RAE Systems - Po								
		MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
		Clear 10°F		SCALER:	Ludlum 2221		2		172013/PR15	56395			
Sampling Method:		Mud Rotary Split Spoon			Borehole Diame Borehole Depth:		2 inch 102 feet						
Start Time:		8:00			Commpletion Ti		15:00						
Start Date:		1/28/2014			Completion Date		1/28/2014						
MARRSIM Walkov								RAD (2X Ba	kground)		As	Pb	
Range			Point	7,635	cpm		Ionitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205	
60	2	0.8		SW	10YR4/4	Wet	Medium-Fine Sands, Some Gravel.	3.1	1.6	4			
62													
63													
64													
65	2	0.8		SW	10YR4/4	Wet	Medium-Fine Sands, Some Gravel.	0.0	6	14		1	
66												1	
67													
68													
69													
70	2	0											
71													
72													
73													
74													
75	2	1		SW	10YR4/4	Wet	Fine to Coarse Sands, Some Gravel.	0.0	23	57			
76													
77													
78													
79													

		SOIL BORING LOG SHEET LT-G-002 Instrument Model Number Serial Number											
BOREHOLE NU	IMBER:	LT-G-002		Instrument			Model Number				Seria	l Number	
GEOLOGIST:		JE		PID:	RAE Systems - Pi				110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Clear 10°F		SCALER:	Ludlum 2221		I		172013/PR1	56395			
Drilling Metho		Mud Rotary Split Spoon			Borehole Diame Borehole Depth:		2 inch 102 feet						
Sampling Meth Start Time:	100:	8:00			Commpletion Ti		15:00						
Start Time: Start Date:		1/28/2014			Completion Date		1/28/2014						
	kover Survey (1				reompietion but			RAD (2X Ba	kground)		As	Pb	
Range		10-7,500 cpm	Point	7,63	5 cpm		Monitoring Action levels	14,648			24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log	
80	2	0											
81													
82													
83													
84													
85	2	0.8		SC	10YR4/4	Wet	Sandy Clay, Some Gravel.	0.0					
86													
87													
88													
89													
90	2	0.5		SM	10YR4/2	Wet	Silty Sand, Some Gravel.	0.0					
91													
92													
93													
94													
95	2	1.3		sc	10YR4/4	Wet	Sandy Clay, Some Gravel.	0.0					
96													
97													
98													
99													
100													

			SOI	L BORING LOG SHEET				
BOREHOLE NUMBER:	LT-G-003	Instrument		Model Number	Serial Number			
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600		110-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301			
WEATHER:	Sunny 11°	SCALER:	Ludlum 2221		172013/PR156395			
Drilling Method:	Direct Push		Borehole Diameter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth:	12 feet				
Start Time:	8:00		Commpletion Time:	9:00				
Start Date:	1/28/2014		Completion Date:	1/28/2014				

MARRSIM Wal	kover Survey (10	1/28/2014 'Y10'\			Completion Date		1/28/2014	RAD (2X Bac	kground)		As	Pb
Range		0-6,250 cpm	Point	6.563	3 cpm	ı	Monitoring Action levels	14,648			24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1	(10)	(ic)		SW-SM	10YR5/4	Dry	Well Graded Medium Sand with Silt	0.0	5	15	5,710	
3	5	3			40002/4		and Gravel	0.0	<27	66	5,560	
5			_	SM	10YR3/4		Silty Sand with Gravel	0.0	12	19	5,460	
7	5	4.5		\$C	10YR4/6	Moist	Clayey Sand with Gravel	0.0	9	15	5,580	
9				30	10YR4/1		Gayey Sahu wich Gravel	0.0	<6	26	5,710	
11	2	2		SW-SM	10YR4/6	Wet	Well Graded Medium Sand with Silt	0.0	<4	12	5,540	
12					10YR4/1 Wet		and Gravel					

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-G-004		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 11°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth		12 feet					
Start Time:		9:15			Commpletion Ti	me:	9:50					
Start Date:		1/28/2014			Completion Date:		1/28/2014					
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,84	10-5,780 cpm	Point	5,65	5,655 cpm		vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil Moisture		Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log	
1 2	. 5	3		SW-SM	10YR4/4	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	<7	40	6,790	
3				CW.			Well Graded Medium Sand with Gravel and Brick	0.0	3.5	17.6	7,110	
5			_	SW	10YR4/8		Well Graded Fine Sand with Gravel	0.0	<5	18	6,840	
7	5	4		SC	10YR4/3	Wet	Sandy Clay	0.0	14	20	6,690	
9		,		SW-SM 10YR4/2	SM 10YR4/2		Well Graded Fine Sand with Silt	0.0	<4	33	6,625	

Well Graded Fine Sand with Gravel

0.0

4

8

6,510

10YR5/8

10YR4/1

SW

10

11

12

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-005		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 11°		SCALER:	Ludlum 2221				172013/PR15	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:10			Commpletion Ti	me:	10:45					
Start Date:		1/28/2014			Completion Date	e:	1/28/2014					
MARRSIM Wal	kover Survey (10)'X10')				Monitoring Action levels		RAD (2X Bad	ckground)		As	Pb
Range	4,59	0-5,720 cpm	Point	4,63	5 cpm	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	2.5		SW-SM	10YR5/2		Well Graded Medium Sand with Silt and Gravel	0.0	8	32	7,010	
3	-				10YR4/1			0.0	<4	<5	7,140	
5			_	SM			Silty Sand	0.0	<20	46	7,190	
6						Wet					,	
7				SW-SM	10YR4/3		Well Graded Medium Sand with Silt and Gravel	0.0	0.0 20	23	6,980	
8	5	5										
9					10YR6/3		0.0	18	26	6,840		
10				CL			Clay					
11	2	2.5			10YR4/1		,	0.0	9	12	6,800	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-006		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 11°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		11:30			Commpletion Ti	me:	12:00					
Start Date:		1/28/2014			Completion Date	e:	1/28/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	5,70	00-6,250 cpm	Point	6,33	cpm		violitoring Action levels	14,648	cpm		24 ppm 400 pp	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log
0 1 2 3 4 5 5	5	3		SM	10YR4/2 10YR4/1	Moist	Grass, Leaves, Silty Sand with Gravel	0.0	18	18	6,540 6,710	
6				SW	10YR4/6		Well Graded Medium Sand with Gravel	0.0	26	29	6,980	
7								0.0	18	21	6,780	
8	5	4										
9					10YR5/2	Wet		0.0	<8	30	6,730	
10			_	SM		_	Silty Sand					

0.0

12

7,090

10YR3/3

10YR5/2

11

12

				SC	DIL BORING LOG SHEET				
BOREHOLE NUMBER:	LT-G-007	Instrument			Model Number		Serial Numbe	r	
GEOLOGIST:	AR	PID:	RAE Systems - PC	GM7600		¹ 6			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems	Inc DS-4000		500301			
WEATHER:	Sunny 11°	SCALER:	Ludlum 2221	dlum 2221 172013/PR156395					
Drilling Method:	Direct Push		Borehole Diamet	ter:	2 inch				
Sampling Method:	Closed Piston		Borehole Depth:		12 feet				
Start Time:	12:40		Commpletion Time: 13:45						
Start Date:	1/28/2014	•	Completion Date	e:	1/28/2014		_		
MARRSIM Walkover Survey	/ (10'X10')				Monitoring Action levels	RAD (2X Background)	As	Pb	

Start Date:		1/28/2014			Completion Date	I .	1/28/2014	RAD (2X Bac	learound\		As	Pb
	lkover Survey (10		1			· N	Monitoring Action levels	14,648				400 ppm
Range		0-6,980 cpm	Point		5 cpm						24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil		Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 +100
1				SM	10YR4/4		Well Graded Silty Sand with Gravel	0.0	5	26	7,075	
2	- 5	2.5				Moist						
3				CL			Silty Clay with Gravel	0.0	4	17	6,725	
4				<u> </u>	10YR5/4		only day with dravel	0.0		1,	0,723	
5					10185/4			0.0	<4	20	7,360	
6								0.0	<4	20	7,360	
7					10YR5/1		Well Graded Medium Sand with Gravel	0.0	<1.2	9.7	7,070	
8	5	3										
9				SW	10//05/2	— Wet	et _	0.0	6 11	11	7.050	
10					10YR5/3			0.0	6	11	7,050	
11	2	2			10YR6/3		Well Graded Fine Sand	0.0	<1	10.8	7,350	
12	2	2			10110/3		well Glaueu Fille Sallu	0.0	/1	10.6	7,330	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-008		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 11°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method		Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth		12 feet					
Start Time:		14:00			Commpletion Ti	me:	14:35					
Start Date:		1/28/2014			Completion Date	e:	1/28/2014					
MARRSIM Wal	kover Survey (10)'X10')					A . The day A series by the	RAD (2X Bad	ckground)		As	Pb
Range		i0-6,730 cpm	Point	6,665	5 cpm	· ·	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhata Las
(ft)	(ft)	(ft)			Color	Content	·	(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
0 1 2 3 4 5	5	3.5		SM	10YR4/4 10YR4/6 10YR6/2	Dry	Grass, Silty Sand with Gravel	0.0	4	13	6,970	
6								0.0	4.5	20	7,200	
7					10YR4/6			0.0	15	15	6,940	
8	5	4										
9				SW-SM		Wet	Well Graded Medium Sand with Silt and Gravel	0.0	8	<4	7,320	
10				10	10YR3/4				8			235

0.0

<5

5

7,205

11

12

2

3"

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-009		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Cloudy 17°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		8:30			Commpletion Ti	me:	9:00					
Start Date:		1/29/2014			Completion Date	e:	1/29/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	6,84	0-7,510 cpm	Point	7,77	6 cpm	'	World Hevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	r Hoto Log
1 2	5	2.5			10YR5/2		Silty Sand	0.0	<4	37	7,100	
4				SM	10YR4/3	Dry		0.0	5	9	6,850	
5			-		10YR4/4		Silty Sand with Gravel	0.0	6	14	6,790	
7					10YR3/4	Moist		0.0	4.7	7	7,000	
8	5	2.5		SW-SM			Well Graded Sand with Silt and		4.7 7	7 7,000		
9					10YR4/2 Wet		Gravel	0.0	6	14	6,970	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-010		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 17°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		9:20			Commpletion Ti	me:	10:20					
Start Date:		1/29/2014			Completion Date	e:	1/29/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	5,24	0-6,010 cpm	Point	5,77	5 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil Moisture		Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1				SM	10YR3/2	Wet	Wood, Leaves, Silty Sand	0.0	9	16	7,080	
2	- 5	2.5			-							
3					10YR3/6		Well Graded Fine Sand with Silt and Gravel	0.0	<4	24	6,920	
5						10YR3/4 Moist	Well Graded Medium Sand with Silt					
6					10YR3/4		and Gravel	0.0	<1.1	12.7	6,570	
7	5	4		SW-SM				0.0	23	<2.6	6,590	
												营售图
9				10YR4/4	10YR4/4		Well Graded Sand with Silt and Gravel	0.0	62	3.2	5,750	
11	2	6"			Wet			0.0	<8	14	5,750	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-G-011		Instrument			Model Number				Seri	ial Number
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 17°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		10:30			Commpletion Tir	me:	11:20					
Start Date:		1/29/2014			Completion Date	2:	1/29/2014					
MARRSIM Wal	lkover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,43	30-6,420 cpm	Point	5,94	3 cpm	Widnitoring Action levels		14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
2 3	- 5	4			10YR4/1	Moist	Clay Clay with Gravel	0.0	<1.6	16	6,970 6,840	
5				CL				0.0	1.7	16	7,180	
7					10YR3/1	Wet	Clay	0.0	2.9	21	7,030	3
8	5	5										
9								0.0	0.0 4.9 15 6,780			

				SOIL BORING LOG SHEET							
BOREHOLE NUMBER:	LT-G-012	Instrument		Model Number			Serial Numb	ber			
GEOLOGIST:	AR	PID:	RAE Systems - PGM7600)		110-009576					
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc D	S-4000		500301					
WEATHER:	Cloudy 17°	SCALER:	Ludlum 2221			172013/PR156395					
Drilling Method:	Direct Push		Borehole Diameter:	2 inch							
Sampling Method:	Closed Piston		Borehole Depth:	12 feet							
Start Time:	11:30		Commpletion Time:	12:00							
Start Date:	1/29/2014	•	Completion Date:	1/29/2014	•	•	•				
	4411				PAD /2V P	ackground)	Λc	Dh			

Start Date:		1/29/2014			Completion Date	:	1/29/2014					
MARRSIM Wal	kover Survey (10)'X10')					Nonitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	6,55	0-6,840 cpm	Point	6,794	1 cpm	.,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0												
1						Moist	Silty Clay	0.0	<1.7	16	6,545	
2	5	4.5		CL	10YR4/3							
3							Clay	0.0	13	5.1	6,760	
4												
5							Well Graded Fine Sand	0.0	<1.5	17	6,550	
6					10YR5/8						,	
7					·	Wet		0.0	3	4.8	7,020	
8	5	4		SW								
9					10YR4/6		Well Graded Fine Sand with Gravel	0.0	3	6.3	7,100	
10											-,	
11	2	1.5			10YR45/4			0.0	<1.4	10.2	6,970	
12					- · · · · · · · ·					, <u>-</u>	-,3:-	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-013		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 17°		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Method	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		13:00			Commpletion Tir	ne:	13:45					
Start Date:		1/29/2014			Completion Date):	1/29/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	6,05	0-6,410 cpm	Point	6,259) cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2				SW-SM	10YR5/3	Dry	Well Graded Medium Sand with Silt and Gravel	0.0	3.6	12.7	6,815	
3	5	4						0.0	13	11	6,850	
5				SM	10YR4/3	Moist	Silty Sand	0.0	3.5	12.1	7,020	
7					10YR3/6			0.0	5.7	8.9	7,580	
8	5	5		SW			Well Graded Fine Sand					
9						Wet		0.0	27	42	7,350	
10				SC 10	10YR5/4	wet	Clayey Sand	5.0	-/	74	,,550	
11	2	2.5			200/4		elayey sund	0.0	<8	38	7,160	
12	<u> </u>	2.3					Silty Sand	0.0	70	30	7,100	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-014	_	Instrument		-	Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 17°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		13:55			Commpletion Tir	ne:	14:25					
Start Date:		1/29/2014			Completion Date):	1/29/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	6,67	5-7,460 cpm	Point	6,83	1 cpm	ľ	wormoning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2	. 5	4		SM	10YR5/4		Silty Sand with Gravel	0.0	8	15	6,950	
4					10YR4/3	Moist		0.0	8	24	6,790	
5				SW-SM	10YR4/4		Well Graded Medium Sand with Silt and Gravel	0.0	<8	26	6,540	
6				SC	10YR4/1		Clayey Sand				ŕ	
7	5	4		SW-SM	10YR4/4		Well Graded Medium Sand with Silt and Gravel	0.0	3.5	7.2	6,540	
9				SM	10YR2/1	Wet	Silty Sand with Gravel	0.0	2.2	8.8	6,380	

Well Graded Medium Sand with Silt

and Gravel

SW-SM

10YR4/2

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-015		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 16°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	12 feet					
Start Time:		8:15			Commpletion Ti	me:	9:00					
Start Date:		1/30/2014			Completion Date	e:	1/30/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,86	0-6,530 cpm	Point	6,34	5 cpm	,	World The Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 110to 20g
1 2	5	4			10YR3/2			0.0	9	20	5,650	
3	J	,		SM	10YR4/4		Wood, Leaves, Silty Sand, Little Gravel	0.0	49	41	5,820	
5			_		10YR5/3	Dry		0.0	<1.7	15.8	6,110	
7	5	2			10YR5/4			0.0	4.2	17.6	5,830	
9				SW			Well Graded Medium Sand with Silt	0.0	4.7	12.6	5,560	
10			-	SM	10YR4/4		Silty Sand with Gravel					

Moist

Sandy Clay

CL

12

5,770

0.0

4.5

				SOI	L BORING LOG SHEET						
BOREHOLE NUMBER:	LT-G-016	Instrument			Model Number			Serial Numb	ber		
GEOLOGIST:	AR	PID:	RAE Systems - PGM7	7600		1	10-009576				
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc.	DS-4000		50	00301				
WEATHER:	Sunny 16°	SCALER:	Ludlum 2221	llum 2221 172013/PR156395							
Drilling Method:	Direct Push		Borehole Diameter:		2 inch						
Sampling Method:	Closed Piston		Borehole Depth:		12 feet						
Start Time:	9:10		Commpletion Time:		9:50						
Start Date:	1/30/2014		Completion Date:		1/30/2014						
A A A D D C I A A VA (= II) C C	(10 V10)			•		RAD (2X Backs	ground)	As	Ph		

Start Date:		1/30/2014			Completion Date		1/30/2014			1		<u> </u>
MARRSIM Wal	kover Survey (10	'X10')	,	1		N	Monitoring Action levels	RAD (2X Bac			As	Pb
Range	5,87	0-6,530 cpm	Point	6,079	cpm		5	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1					10YR2/1			0.0	5	26	5,840	
2	5	4		SM			Wood, Leaves, Silty Sand					
3					10YR3/4			0.0	28	<10	5,910	
4											,	
5			_	SW		Dry	Well Graded Fine Sand	0.0	16	15	6,140	
6				·	10YR4/6						ŕ	
7				ML			Silt	0.0	5.2	22.1	5,980	
8	5	4.5									ŕ	
9				SM			Silty Sand	0.0	<3	21	5,930	
10					10YR4/2		,				.,	
11	2	3		ML		Moist	Silt	0.0	9	28	5,440	
12											-,	夏

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-017		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 16°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:10			Commpletion Ti	me:	10:35					
Start Date:		1/30/2014			Completion Date	e:	1/30/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,38	30-5,830 cpm	Point	5,81	4 cpm	,	World The Precion levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2				SM	10YR2/1		Wood, Leaves, Silty Sand	0.0	8	30	5,640	
3	5	4			10YR4/4		Silty Sand with Gravel	0.0	1.6	12.6	5,880	
5			_	SC	10YR4/2	Dry	Clayey Sand with Gravel	0.0	18	31	5,760	
7	5	4		SM			Silty Sand with Gravel	0.0	9	16	5,900	
9					- 10YR5/4			0.0	4	22	5,830	
11	2	3		CL	10YR4/6	Moist	Sandy Clay	0.0	5	21	5,760	

12

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-018		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 16°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		11:05			Commpletion Ti	me:	11:35					
Start Date:		1/30/2014			Completion Date	e:	1/30/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,37	70-5,830 cpm	Point	5,76	6 cpm	,	worldowing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2					10YR3/2			0.0	22	26	5,830	
3	5	4		SM	10YR3/4		Wood, Leaves, Silty Sand with Gravel	0.0	14	26	6,170	
5			-		10YR5/4	Dry		0.0	16	22	5,940	
7	5	4.5		CL	10YR5/3		Clay	0.0	15	42	6,210	
9				CL	10113/3		Clay	0.0	3.6	14.7	5,500	
11	2	2		SM	10YR5/4	Moist	Silty Sand	0.0	2.5	7.8	5,730	
I	1 -	1 -						1		1	2,	

Well Graded Fine Sand

SW

						SOII	L BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-G-019		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch						
Sampling Metl	nod:	Closed Piston			Borehole Depth:		12 feet						
Start Time:		9:00			Commpletion Ti	me:	9:25						
Start Date:		2/6/2014			Completion Date	2:	2/6/2014						
MARRSIM Wal	kover Survey (10)'X10')	,				Monitoring Action levels	RAD (2X Bad			As	Pb	
Range	2,99	0-3,530 cpm	Point	3,13	4 cpm	· ·		14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)		
1 2		3		SW	10YR4/4	Moist	Stone, Well Graded Fine Sand with Trace Gravel	0.0	<4	74	3,940		
4		3		CW CW	10YR3/3			0.0	177	114	4,000		
5			-	SW-SM	10YR5/4		Well Graded Fine Sand with Silt	0.0	4	16	4,400		
7	5	3		CL 10Y	10YR3/1		Sandy Clay	0.0	<1.8	24	3,800		
9		3	3			10YR2/1	Wet		0.0	<7	30	4,620	
11				SW			Well Graded Fine Sand with Gravel					Fig.	

<1.8

0.0

2.7

4,410

10YR5/8

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-G-020		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	od:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	hod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:30			Commpletion Ti	me:	10:40					
Start Date:		2/6/2014			Completion Date	2:	2/6/2014					
MARRSIM Wa	lkover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	3,68	30-5,250 cpm	Point	5,18	0 cpm	,	world action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2	5	2.5			10YR4/2	Moist	Concrete, Well Graded Fine-Medium Sand with Gravel	0.0	8	9	3,810	
3				SW	10YR5/4			0.0	<2	17	4,375	
5			_		10YR4/2		Brick, Well Graded Fine-Coarse Sand with Gravel	0.0	13	77	4,070	
7	5	3		CL	10YR2/2		Sandy Clay	0.0	3.9	15.6	3,980	
9	-			CL 10YR3/2	Wet		0.0	<5	13	3,865		
10						Silt with Gravel						
11	2	2		CL	10YR3/1		Clay	0.0	16	35	4,110	

			SOI	L BORING LOG SHEET	
BOREHOLE NUMBER:	LT-G-021	Instrument:		Model Number	Serial Number
GEOLOGIST:	JE	PID:	RAE Systems - PGM7600		110-009576
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301
WEATHER:	Sunny 27 °	Scaler:	Ludlum 2221		172013/PR156395
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch	
Sampling Method:	Closed Piston		Borehole Depth:		
Start Time:	8:45		Completion Time:	9:10	
Start Date:	2/7/2014		Completion Date:	2/7/2014	

MARRSIM Wa	lkover Survey (10	'X10')					A A	Rad (2X Bac	kground)		As	Pb
Range		0-5,120 cpm	Point	4,621	l cpm		Monitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth (ft)	Advanced (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0	(it)	(-4)		SM	10YR5/4		Silty Sands, Some Gravel	(FF)	(PP***)	(PP)	(орин)	
1							, ,	0.0	3	10	4,620	
2	5	3				Moist	Wood					
3					10YR5/4		Well Graded Fine Sands, Some Gravel	0.0	< 1.8	26	4,780	
4								0.0	11.0	20	4,700	
5				SW	10YR3/2		Well Graded Fine Sands, Some Gravel, Wood.	0.0	< 1.9	28	4,510	
6				5		Wet		0.0	11.5	20	7,510	
7	3				10YR2/1	***************************************	Well Graded Medium Sands, Some	0.0	< 2	39	4,750	
8							Gravel.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

			SOI	L BORING LOG SHEET	
BOREHOLE NUMBER:	LT-G-022	Instrument:		Model Number	Serial Number
GEOLOGIST:	JE	PID:	RAE Systems - PGM7600		110-009576
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301
WEATHER:	Sunny 27 °	Scaler:	Ludlum 2221		172013/PR156395
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch	
Sampling Method:	Closed Piston		Borehole Depth:	10 Feet	
Start Time:	8:30		Completion Time:	9:10	
Start Date:	2/7/2014		Completion Date:	2/7/2014	

MARRSIM Wa	lkover Survey (10	'X10')			•		2///2014	Rad (2X Bac	kground)		As	Pb	
Range		0-5,290 cpm	Point	4,925	5 cpm	1	Nonitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth (ft)	Advanced (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log	
0													
1					10YR4/3			0.0	7	54	4,430		
2	_	1.5				Moist	Well Graded Fine Sands, Some Gravel.						
3	5	1.5			10YR7/3		0.0	8	30	4,390			
4					10187/3			0.0	0	30	4,330		
5				SW	10,403/2		Well Graded Medium Sands, Some	0.0	< 1.3	21	4,750		
6								0.0	1.5	21	4,730		
7				Silt, Some Gravel.	1.8	1.8 5.9 4,610	4,610						
8	5	5					wet		0.0	1.0	3.3	4,010	
9					10YR3/3		Well Graded Fine Sands, Some	0.0	5.4	5.4	4,540		
10					10103/3		Gravel.	0.0	5.4	5.4	4,340		

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-023		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		11:25			Commpletion Ti	me:	12:00					
Start Date:		2/6/2014			Completion Date	e:	2/6/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	3,68	0-5,250 cpm	Point	5,18	0 cpm	,	worthorning Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Eog
1 2	5	4			10YR4/4	Moist		0.0	<2	40	3,950	
4				SW	10YR4/2		Well Graded Medium Sand with Gravel	0.0	4.1	11	4,170	
5			_					0.0	<1.6	20	4,580	
					_							
7					10YR2/1	Wet		0.0	14	136	4,210	
8	5	5		CL	10YR2/1		Sandy Clay	0.0	14			
9				CL			Sandy Clay	0.0	16	8	4,190	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-024		Instrument:			Model Number				Seria	ıl Number
GEOLOGIST:		JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 27 °		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Meth	nod:	Closed Piston			Borehol	le Depth:	10 Feet					
Start Time:		14:00			Complet	ion Time:	14:20					
Start Date:		2/7/2014			Complet	tion Date:	2/7/2014					
MARRSIM Wal	kover Survey (10)'X10')				١,	Monitoring Action levels	kground)		As	Pb	
Range	5,43	0-5,770 cpm	Point	5,33	6 cpm	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
2	5	3.5				Moist		0.0	4.8	< 1.6	4,560	
4				sw	10YR5/6		Well Graded Fine to Coarse Sands, Some Gravel.	0.0	5.1	< 1.6	4,610	
6			-					0.0	< 1.3	4.1	4,700	
8	5	4.5				Wet		0.0	1.6	3	4,630	

4,580

0.0

2.2

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-025		Instrument:			Model Number				Seria	al Number
GEOLOGIST:		JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 27 °		Scaler:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole	Diameter:	2 Inch					
Sampling Meth	nod:	Closed Piston			Borehol	le Depth:	10 Feet					
Start Time:		14:00			Complet	tion Time:	14:20					
Start Date:		2/7/2014			Complet	tion Date:	2/7/2014					
MARRSIM Wall	kover Survey (1	0'X10')				,	Monitoring Action levels	Rad (2X Bac	kground)		As	Pb
Range	5,35	50-5,780 cpm	Point	5,678	8 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Filoto Log
1 2	5	1			10YR2/1	Moist	Well Graded Fine Sands, Some Gravel.	0.0	43	194	4,610	
3								0.0	24	123	4,570	
5			_	sw	10YR5/1			0.0	13	9	4,480	
7						_						18/

Well Graded Fine to Coarse Sands,

Some Gravel.

0.0

0.0

9

4.7

16

9.1

4,510

4,490

Wet

10YR4/4

9

						SOI	L BORING LOG SHEET						
BOREHOLE NU	JMBER:	LT-G-026		Instrument			Model Number				Seri	al Number	
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576				
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301				
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Metho	od:	Air Hammer			Borehole Diame	eter:	2 inch						
Sampling Met	hod:	Closed Piston			Borehole Depth	:	10 feet						
Start Time:		8:10			Commpletion Ti	ime:	9:15						
Start Date:		2/21/2014			Completion Date	e:	2/21/2014						
MARRSIM Wa	lkover Survey (1	0'X10')					Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb	
Range	4,3	50-5220 cpm	Point	4,33	9 срт	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log	
1	-				10YR3/1 10YR5/1		Asphalt, Wood, Silty Sand	0.0	22	67	4,480		
2	- 5	4.5		SM	10YR3/1	Moist							
4	_				10YR5/2		Silty Sand with Gravel	0.0	<54	<58	4,620		
5				SW-SM	10YR5/4		Well Graded Fine Sand with Silt and	0.0	<56	<55	5,000		
6					·		Gravel						
7	-			SW			Well Graded Medium Sand with Gravel	0.5	<8	10	4,810		
8	5	4.5		10YR4/4 SM	Wet	Glavei		<8 10					
9	_				10YR4/4 Wet -		Silty Sand with Gravel		.0 <16 <17	4,840			
10				SW-SM			Well Graded Medium Sand with Silt	3.0	.10	-1,	.,540		

and Gravel

BOREHOLE NU	JMBER:	LT-G-027		Instrument			Model Number				Serial N	umber
EOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems				500301			
WEATHER:		Mist 37°		SCALER:	Ludlum 2221				172013/PR15	6395		
Orilling Metho	od:	Air Hammer		•	Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		9:30			Commpletion Ti	me:	10:45					
Start Date:		2/21/2014			Completion Date	e:	2/21/2014					
√ARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bac	kground)		As	Pb
Range	4,23	80-5,200 cpm	Point	5,09	4 cpm		Worldoning Action levels	14,648 cpm			24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1				SW	10YR3/1	Wet	Well Graded Medium Sand with Gravel	0.0	18	65	4,370	
2	- 5	3.5		SM	10YR4/3	Moist						
3					10YR4/1		Silty Sand with Gravel	0.0	17	23	3,980	1 /
4					10YR5/1		Well Graded Medium Sand with Silt and Gravel				,	
5				SW-SM	10YR2/1			0.0	<16	55	4,320	
6								0.0	-10	33	.,,520	
7				SM		Wet	Asphalt, Wood, Silty Sand with Gravel	0.5 <31	<31	51 6,340	6.340	1
8	5	2.5			10YR5/1				<31		5,5 15	
9				SW-SM		Well Graded Medium Sand with Silt	0.0	20	<16	7,180		
10							and Gravel	0.0	20 <16	- 10	.,==0	

						SOII	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-028		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - PO	6M7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 35 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diamet	er:	2 inch					
Sampling Meth	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		9:00			Commpletion Tir	ne:	9:25					
Start Date:		2/24/2014			Completion Date	:	2/24/2014					
MARRSIM Wal	kover Survey (10)'X10')				Λ.	Monitoring Action levels	RAD (2X Background)			As	Pb
Range	7,040	0-10,920 cpm	Point	9,818	3 срт	."	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Edg
1								0.0	<9	19	8,100	
3	5	5		SM			Fine-Medium Silty Sand with Gravel					
4					10YR5/4	R5/4		0.0	<17	<20	8,240	
5						Dry		0.0	<8	13	8,530	
Ü												
7								0.0	<8	15	9,035	
8	5	4.5										
9				CL	CL 10YR5/6		Sandy Clay	0.0 <15	<15	<16	9,060	
10					10111370		Sundy City	0.0	15	10	3,000	
11	2	2			10YR5/1	Moist		0.0	<15	<16	8,380	
12	2	2			10103/1	IVIOISE		0.0	~13	~10	0,300	

			SOI	L BORING LOG SHEET		
BOREHOLE NUMBER:	LT-G-029	Instrument:		Model Number	Serial Number	
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600		110-009576	
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS-4000		500301	
WEATHER:	Partly Cloudy 35 °	Scaler:	Ludlum 2221		172013/PR156395	
Drilling Method:	Direct Push		Borehole Diameter:	2 Inch		
Sampling Method:	Closed Piston		Borehole Depth:	10 Feet		
Start Time:	9:40		Completion Time:	9:55		
Start Date:	2/24/2014		Completion Date:	2/24/2014		

Start Date:		2/24/2014			•	I Date.	2/24/2014	D. 1/2V.D.		ı		N.
	lkover Survey (10		.	6.656		r	Monitoring Action levels	Rad (2X Bac			As	Pb
Range)-7,510 cpm	Point		3 cpm		1	14,648			24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Ü
1 2				SW-SM		Dry	Well Graded Fine-Medium Sand with Silt and Gravel	0.0	<4.6	21	8,560	
3	5	4						0.0	<5.2	20	8,450	
5	_			SC	10YR4/4							
6						Moist	Sandy Clay with Gravel, Trace Rock	0.0	<6	16	8,610	
7	-							0.0	<4.9	19	8,590	
8	5	4										
9				SW	10YR4/6	Wet	Well Graded Fine-Medium Sand with	0.0	4.6	<5.2	8,320	
10							Gravel				-,	

				SOIL B	ORING LOG SHEET					
BOREHOLE NUMBER:	LT-G-030	Instrument:			Model Number			Serial Number		
GEOLOGIST:	AR/TF	PID:	RAE Systems - PGM7600)			110-009576			
HEALTH TECHNICIAN:	MS	XRF:	Innov-X Systems Inc DS	S-4000			500301			
WEATHER:	Partly Cloudy 35 °	Scaler:	Ludlum 2221				172013/PR15	56395		
Drilling Method:	Direct Push		Borehole Diamete	er: 2	Inch					
Sampling Method:	Closed Piston		Borehole Depth: 8 Feet							
Start Time:	10:15	e: 10	10:35							
Start Date:	2/24/2014	Completion Date	e: 2/	/24/2014	•		_			
						DI /2V DI		A -	DI-	

Start Date:		2/24/2014				lion bate.	2/24/2014					
MARRSIM Wa	lkover Survey (10)'X10')					Monitoring Action levels	Rad (2X Bac	kground)		As	Pb
Range	5,78	0-7,135 cpm	Point	6,242	2 cpm	,"	Notificating Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
0												
1						Moist		224.0	8	10	8,140	
2	- 5	4		SM	10YR5/6		Silty Sand with Gravel, Trace Rock					
3						Dry		0.0	<6	3	8,410	
4						·					·	
5						Moist		0.0	<5.5	12	8,080	
6				SW	10YR5/8		Well Graded Fine-Medium Sand with				.,,,,,	
7	3	2.5		3	101113/3	Wet	Gravel	0.0	<4.9	10	8,010	
8						***************************************		0.0		10	0,010	

						SOI	L BORING LOG SHEET							
BOREHOLE NU	MBER:	LT-G-031		Instrument:			Model Number				Seria	al Number		
GEOLOGIST:		AR/TF		PID:	RAE Systems - PO	GM7600			110-009576					
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301					
WEATHER:		Clear 35 °		Scaler:	Ludlum 2221				172013/PR15	56395				
Drilling Method	d:	Direct Push			Borehole	Diameter:	2 Inch							
Sampling Meth	nod:	Closed Piston			Borehole	e Depth:	10 Feet							
Start Time:		10:40			Completi	ion Time:	11:00							
Start Date:		2/24/2014			Completi	ion Date:	2/24/2014							
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	Rad (2X Background) As					Pb	
Range	4,09	90-5,680 cpm	Point	5,442	1 cpm	ľ	violitoring Action levels	14,648	14,648 cpm 24 ppm 400 ppm			400 ppm		
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading As Pb RAD Photo Log				Photo Log		

Start Date:		2/24/2014			Complet	tion Date:	2/24/2014			1		
MARRSIM Wal	lkover Survey (10	'X10')				_	Monitoring Action levels	Rad (2X Bac			As	Pb
Range	4,09	0-5,680 cpm	Point	5,442	1 cpm		nonnearing / tettor revers	14,648	cpm		24 ppm	400 ppm
Depth	Advanced	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 2005
1 2	,					Moist		0.0	<7	11	7,960	
3	5	4		CL			Fine Sandy Clay with Gravel	0.0	<14	<14	8,040	
5					10YR5/8			0.0	<6	11	8,160	
7	-					Wet		0.0	<9	12	7,910	
9	5	1.5		SM			Fine-Medium Silty Sand with Gravel					
10								0.0	<22	<24	7,990	

						SOI	L BORING LOG SHEET																					
BOREHOLE NU	MBER:	LT-G-032		Instrument			Model Number				Seria	al Number																
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576																			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301																			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR15	6395																		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch																					
Sampling Meth		Closed Piston			Borehole Depth:		12 feet																					
Start Time:		11:05			Commpletion Ti		11:25																					
Start Date:		2/24/2014			Completion Date:		2/24/2014																					
	kover Survey (10)'X10')					RAD (2X Background) As				As	Pb																
Range		60-5,340 cpm	Point	4,541	1 cpm	ľ	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm																
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Dhoto Log																
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log																
0				SM	10YR5/4		Silty Sand	0.0	<7	35	9,275																	
2	5	4																										
3					10YR5/1	Moist		0.0	<4.3	11	8,805																	
4																												
5								0.0	<4.3	12.1	8,235																	
6																												
7																				SC			Clayey Sand	0.0	<5.3	19	8,520	
8	5	5			10YR6/1	Dry	,.,																					
9					101110/1	ыу		0.0		10	0.000																	
10								0.0	<4.9	19	9,000																	
11	2	5				Moist		0.0	<4.2	13	8,690																	
	_							0.0		10	0,030																	

						SUIL	BORING LOG SHEET					
BOREHOLE NUN	MBER:	LT-G-033		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHNI	ICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR15	6395		
Drilling Method	l:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Metho	od:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:00			Commpletion Tir	ne:	12:20					
Start Date:		2/24/2014			Completion Date):	2/24/2014					
MARRSIM Walk	over Survey (10	'X10')					Nonitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	5,32	0-6,350 cpm	Point	5,668	8 cpm		nonitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2				SW-SM	10YR3/4		Well Graded Medium Sand with Silt and Gravel	0.0	<4.6	6	8,790	
3	5	5						0.0	<4.3	10	9,810	
5				SM	10YR4/4	Moist	Silty Sand with Gravel	0.0	<7	<8	8,530	
6												
7	5	4		SC			Clayey Sand with Gravel	0.0	<5.7	9	8,690	
9					10YR5/1			0.0	<14	<15	9,010	
10											-,,	
11	2	3		SW-SM	10YR5/3	Wet	Well Graded Medium Sand with Silt and Gravel	0.0	<12	<33	9,160	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-034		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHI	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Met	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		12:35			Commpletion Ti	me:	13:05					
Start Date:		2/24/2014			Completion Date	e:	2/24/2014					
MARRSIM Wa	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	6,75	0-8,730 cpm	Point	7,59	3 cpm	ľ	Worldwing Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2		4.5		SW-SM	10YR4/2	Dry	Well Graded Fine Sand with Silt and Gravel	0.0	<4.2	8.2	9,170	
4				SM			Silty Sand with Trace Gravel	0.0	<4.4	15	8,750	
5 6				SP-SM	10YR4/1		Poorly Graded Medium Sand with Silt and Gravel	0.0	<4.2	11	8,735	
7						Moist	Clay	0.0	6.5	12.1	8,885	
8	5	4.5					Sandy Clay with Gravel					
9				CL	10YR4/4			0.0	<5.3	23	9,360	
10				25	,					-	-,,	
11	2	4.5			10YR3/3	Wet	Clay	0.0	<3.9	8.1	8,890	

						SOII	L BORING LOG SHEET								
BOREHOLE NU	MBER:	LT-G-035		Instrument			Model Number				Seria	al Number			
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576						
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301						
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395					
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch								
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet								
Start Time:		13:30			Commpletion Ti	me:	14:05								
Start Date:		2/24/2014			Completion Date	9:	2/24/2014								
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb			
Range	6,53	0-8,190 cpm	Point	7,063	3 cpm	,	Monitoring Action levels	14,648	cpm		24 ppm	400 ppm			
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log			
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log			
1 2				SM	10YR5/4	Moist	Snow, Grass, Silty Sand with Gravel	0.0	<4.4	18	8,860				
3	5	4		SC			Clayey Sand with Gravel	0.0	9.4	13	8,690				
5				CL	10YR4/1	Dry	Clay	0.0	<4.5	16	8,010				
7	5	4		SC	10YR4/3	Moist	Sandy Clay with Gravel	0.0	<4.7	15	8,055				
9				SM	10YR4/1		Silty Sand with Gravel	0.0	<4.3	10	8,630				
10						Wet									
11	2	4		CL	10YR5/2		Clay	0.0	<4.8	<6	9,260				

						SOI	L BORING LOG SHEET						
BOREHOLE NU	MBER:	LT-G-036		Instrument			Model Number				Seria	al Number	
GEOLOGIST:		AR/TF		PID:	RAE Systems - PO	GM7600			110-009576				
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301				
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395			
Drilling Method	d:	Direct Push			Borehole Diamet	ter:	2 inch						
Sampling Meth		Closed Piston			Borehole Depth:		10 feet						
Start Time:		9:15			Commpletion Tir	tion Time: 9:45							
Start Date:		2/25/2014			Completion Date):	2/25/2014						
MARRSIM Wal	kover Survey (10)'X10')					Assistating Action levels	RAD (2X Ba	ckground)		As	Pb	
Range	5,15	0-6,730 cpm	Point	6,59	3 cpm	Monitoring Action levels		14,648	cpm	24 ppm		400 ppm	
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log	
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log	
1 2	5	3.5		SM	10YR4/3	Moist	Silty Sand with Gravel	0.0	<9	19	7,890		
4				SW	10YR3/1		Well Graded Coarse Sand with Gravel	0.0	<6	31	8,430		
5			_	SW-SM	10YR4/3		Well Graded Medium Sand with Silt	0.0	<8	26	8,070		
6							and Graver						
7	5	4		SM	10YR5/4	Wet	Silty Sand, Trace Gravel	0.0	10	14	8,230		
9				SW-SM	10YR4/1		Well Graded Medium Sand with Silt and Gravel	0.0	<18	<21	7,810		

Silty Sand

SM

						SOIL	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-G-037		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Pe	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Partly Cloudy 21 °		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		12 feet					
Start Time:		10:00			Commpletion Ti	me:	10:30					
Start Date:		2/25/2014			Completion Date	e:	2/25/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)	nd) As		Pb
Range	5,94	0-6,710 cpm	Point	5,58	3 cpm	.,	nonitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 Hoto 20g
1 2				SM	10YR5/4		Silty Sand with Gravel	0.0	<4.1	6.2	7,950	
3	5	3			10YR5/1			0.0	5.4	9	7,810	
6				CL	10YR5/4	Moist	Sandy Clay, Trace Gravel	0.0	<5.1	19	8,110	
7	5	5		SW-SM	10YR5/1		Well Graded Medium Sand with Silt and Gravel	0.0	<4.1	8.4	8,220	
9				SM	10YR3/1		Silty Sand	0.0	<4.5	12	8,340	
10			4	SW-SM			Well Graded Medium Sand with Silt	0.0	17.5	12	0,340	
11	- 2	2			10YR4/1		and Gravel	0.0	4.9	11	8,230	

Sandy Clay

CL

						SOI	L BORING LOG SHEET							
BOREHOLE NU	IMBER:	LT-GC-001		Instrument			Model Number				Seri	al Number		
GEOLOGIST:		AR		PID:	RAE Systems - Pe	GM7600			110-009576					
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301					
WEATHER:		Sunny 16°		SCALER:	Ludlum 2221				172013/PR1	56395				
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch							
Sampling Meth	hod:	Closed Piston			Borehole Depth:	e Depth: 120feet								
Start Time:		12:20			Commpletion Ti									
Start Date:		2/27/2014			Completion Date	e:	2/27/2014							
MARRSIM Wal	lkover Survey (1	0'X10')				,	Monitoring Action levels	RAD (2X Bad	kground)		As	Pb		
Range	4,54	10-5,760 cpm	Point	5,419	9 cpm	'	violitoring Action levels	14,648	cpm	24 ppm		400 ppm		
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log		
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log		
1 2	. 5	2		SW-SM	10YR5/3		Well Graded Fine-Medium Sand with	0.0	NM	NM	4,860			
4		_		300 300	10YR4/1	Moist	Silt and Gravel	0.0	NM	NM	4,970			
5					-			0.0	NM	NM	5,030			
6				CL			Sandy C lay with Gravel							
7	5	2.5		SM	10YR3/1		Silty Sand with Gravel, Trace Rock	0.0	NM	NM	4,840			
9					10YR5/8	- Wet		0.0	NM	NM	4,900			

Well Graded Medium Sand with

Gravel

SW

10YR6/6

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-002		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 16°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		12:40			Commpletion Ti	me:	13:05					
Start Date:		2/27/2014			Completion Dat	e:	2/27/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,68	0-5,690 cpm	Point	5,68	5 cpm		violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0						Wet						
1								0.0	NM	NM	5,170	
2	5	3			10YR4/1							
3				SW-SM		Moist	Well Graded Fine-Medium Sand with Silt and Gravel	0.0	NM	NM	5,090	
5					10YR4/4			0.0	NM	NM	4,970	
6					20,						,,	
7					10YR5/6			0.0	NM	NM	4,850	
8	5	4		CL			Wood, Sandy Clay with Gravel				,,,,,,,,	
9				CL	10YR2/1	Wet	wood, sandy clay with Gravel	0.0	NM	NM	5,010	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-003		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 24°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		8:10			Commpletion Ti	me:	8:55					
Start Date:		3/5/2014			Completion Date	2:	3/5/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	5,61	0-6,240 cpm	Point	6,17	8 cpm	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2		3			10YR2/1	Wet	Well Graded Fine-Coarse Sand with Gravel	0.2	NM	NM	6,000	
3		3		SW			Well Graded Fine-Coarse Sand with	0.5	NM	NM	6,140	
5			_		10YR4/3	Moist	Pebbles	8.3	NM	NM	5,990	
7	5	2						4.3	NM	NM	6,130	
9				CL	10YR3/1	Wet	Sandy Clay	2.1	NM	NM	6,090	
11	- 2	1		SW-SM	10YR2/1		Well Graded Fine-Coarse Sand with Silt	1.8	NM	NM	6,180	

						SOIL	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-003A		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/JE		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 24°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Air Hammer			Borehole Diame	ter:	2 inch					
Sampling Meth		Closed Piston			Borehole Depth:		10 feet					
Start Time:		13:05			Commpletion Ti	me:	13:40					
Start Date:		3/5/2014			Completion Date	e:	3/5/2014					
MARRSIM Wal	kover Survey (10	D'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,99	90-5,510 cpm	Point	5,37	1 cpm	.,	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	. Hoto Log
0 1 2 3 4 5 5 6	5	4.5		SW	10YR4/3	Moist	Concrete, Brick, Well Graded Fine Sand with Gravel	0.0	NM NM	NM NM	6,185 6,050	
7	2	5			10YR3/2							
								0.0	NM	NM	5,960	
8				CL			Concrete, Sandy Clay					
9				SW	10YR4/2		Concrete, Brick, Well Graded Fine Sand	0.1	NM	NM	6,110	1
10	5	2.5					Sallu					
11				CL	10YR4/1	Wet	Sandy Clay	0.0	NM	NM	6,015	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-005		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 20°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		8:50			Commpletion Ti	me:	9:10					
Start Date:		3/3/2014			Completion Date	e:	3/3/2014					
MARRSIM Wal	kover Survey (10)'X10')	•			١,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	5,48	30-6,220 cpm	Point	5,88	2 cpm	·	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	. Hoto 20g
0				SW-SM	- 10YR5/3	Dry	Well Graded Medium Sand with Silt and Gravel					
1					10185/3	Diy		0.0	NM	NM	6,050	
2	5	2.5		CL	10YR4/1		Sandy Clay with Gravel					
3		2.3		CL	10YR5/6	Moist	Sandy Clay With Clavel	0.0	NM	NM	6,210	
5					10YR4/2			0.0	NM	NM	5,980	
6					,						,	3
7				SM		Wet	Silty Sand with Gravel, Trace Rock	0.0	NM	NM	5,790	
8	5	5			10YR4/4							
9					10184/4			0.0	NM	NM	5,450	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-006		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 20°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet					
Start Time:		8:15			Commpletion Ti	me:	8:45					
Start Date:		3/3/2014			Completion Dat	e:	3/3/2014					
MARRSIM Wal	kover Survey (10	D'X10')				l ,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,53	30-5,720 cpm	Point	5,22	9 cpm	'	World He Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
1 2	5	4		SM	10YR4/2	Dry	Silty Sand with Gravel	0.0	NM	NM	5,250	
3				OL	10YR2/1		Bog	0.0	NM	NM	5,390	
5				CL	10YR3/1	Moist	Sandy Clay with Gravel	0.0	NM	NM	5,160	
7				SM	10YR3/2		Silty Sand with Gravel	0.0	NM	NM	5,080	1-18
8	5	5		SW-SM	10YR4/3	Wet	Well Graded Sand with Silt and	0.0	INIVI	14141	3,000	
9				3VV-3IVI	10114/3	wet	Gravel	0.0	NM	NM	4,970	

Sandy Clay with Gravel

CL

10

10YR3/2

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-007		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Clouds 20°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		9:20			Commpletion Ti	me:	11:45					
Start Date:		3/3/2014			Completion Date	e:	3/3/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,69	0-6,140 cpm	Point	5,57	7 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	3			10YR4/2	Dry		0.0	NM	NM	5,460	
4				SM			Silty Sand with Gravel, Trace Rock	0.0	NM	NM	5,510	
6			_		10YR4/6	Moist		0.0	NM	NM	5,630	
7					-			0.0	NM	NM	4,980	
8	5	4		SW-SM		_	Well Graded Medium Sand with Silt and Gravel					
9					10YR4/1	Wet	allu Gravei	0.0	NM	NM	5,270	131

Silty Sand with Gravel

SM

10YR3/1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-GC-008		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Clouds 20°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth		10 feet					
Start Time:		11:50			Commpletion Ti	me:	12:25					
Start Date:		3/3/2014			Completion Date	e:	3/3/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	2,58	0-3,620 cpm	Point	2,74	0 cpm		vioriitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Prioto Log
1 2					10YR5/2	Moist		0.0	NM	NM	5,530	
3	5	3		SW-SM	10YR4/1		Concrete, Well Graded Fine-Medium Sand with Silt and Gravel	0.0	NM	NM	5,460	
5			_		10,004			0.0	NM	NM	5,740	
6					10YR3/1	Wet						
8	5	5		SC	10YR2/1		Clayey Sand with Gravel, Slight Petroleum Odor.	0.0	NM	NM	5,850	
9				SW	10YR5/2		Well Graded Fine-Medium Sand with Gravel	0.0	NM	NM	5,270	MA

Bog

OL

10

10YR3/1

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-R-001		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR		PID:	RAE Systems - PO	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 27°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		7:45			Commpletion Tir	me:	8:50					
Start Date:		1/31/2014			Completion Date):	1/31/2014					
MARRSIM Wal	kover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Ba	ckground)		As	Pb
Range	4,32	0-4,680 cpm	Point	4,56	9 cpm			14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	1 11010 205
0											4,450	
1					10YR4/6		Well Graded Medium Sand with Silt and Gravel, Trace Cobbles	0.0			4,530	
2	·5 (Hand Auger)	5		SW-SM		Dry			4	23	4,588	
3	, , , , ,						Well Graded Medium Sand with Silt	0.0			4,410	San Control of the Co
4					10YR3/2		and Gravel	6.6			1,7.120	1304
5				SM	1011/3/2	Moist	Silty Sand with Gravel	0.0			4,530	
6				3141		Moist	Sity sails that state.	0.0			.,,550	
7				SW-SM	10YR3/1		Well Graded Medium Sand with Silt	0.0			4,150	
8	5 4.5		344 3141	10.11.5, 1	Wet	and Gravel	0.0	1.7	8.5	,,155		
9				CL	10YR4/1	vvet	Clay	0.0			4,230	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-R-002		Instrument			Model Number				Seri	ial Number
GEOLOGIST:		AR		PID:	RAE Systems - Po	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 27°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth:		10 feet					
Start Time:		10:50			Commpletion Ti	me:	11:30					
Start Date:		1/31/2014			Completion Date	2:	1/31/2014					
MARRSIM Wal	kover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	kground)		As	Pb
Range	4,03	0-4,510 cpm	Point	3,93	3 cpm	ŗ	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	PHOTO LOG
0					10YR4/3						4,350	N TA
2						Dry		0.0			4,410	10000000000000000000000000000000000000
	5 (Hand Auger)	5		SW-SM	10YR3/2	UI y	Well Graded Medium Sand with Silt and Gravel		97	6	4,670	
4								0.0			4,780	W W
5					-	Moist		0.0			4,420	
6				SM	10YR4/6		Silty Sand with Gravel					
7					_			0.0			4,510	
8	5	5		SW-SM		Wet	Well Graded Fine Sand with Silt and		90	148		
9					- 10YR6/6		Gravel	0.0			4,570	

Silty Sand with Gravel

SM

						SOI	L BORING LOG SHEET					
BOREHOLE NU	IMBER:	LT-R-003		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Cloudy 27°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	hod:	Closed Piston			Borehole Depth:	:	10 feet					
Start Time:		13:50			Commpletion Ti	me:	14:20					
Start Date:		1/31/2014			Completion Date	e:	1/31/2014					
MARRSIM Wal	lkover Survey (10)'X10')				,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,98	0-5,670 cpm	Point	5,26	7 cpm	'	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
1 2	- 5	5		SW	10YR4/4		Well Graded Fine Sand with Gravel, Brick at 3'	0.0	18	41	4,790	
4						Dry		0.0			4,910	
5 6			-		10YR4/3			0.0			5,010	
7				SM			- Silty Sand with Gravel					
8	5	4	2			Wet		0.0	60	54	4,880	
9				SW-SM	10YR5/6		Well Graded Medium Sand with Silt and Gravel	0.0			4,870	

BOREHOLE NUMBER: LT-T-001 Instrument Model Number Serial Number GEOLOGIST: AR/TF PID: RAE Systems - PGM7600 110-009576 HEALTH TECHNICIAN: MS XRF: Innov-X Systems Inc DS-4000 500301 WEATHER: Sunny 21° SCALER: Ludlum 2221 172013/PR156395 Drilling Method: Direct Push Borehole Diameter: 2 inch Sampling Method: Closed Piston Borehole Depth: 17 feet Surface Elevation: 7.63 feet asl Start Time: 8:30 Commpletion Time: 9:00 Start Date: 2/28/2014 Completion Date: 2/28/2014 MARRSIM Walkover Survey (10'X10') RAD (2X Background) As Pb							SOI	L BORING LOG SHEET					
Manual Major Maj	BOREHOLE NU	MBER:	LT-T-001		Instrument							Seria	al Number
March Marc			AR/TF		PID:	RAE Systems - Po	GM7600			110-009576			
Description		NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
Semiple products Construction			Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Semiple products Construction	Drilling Metho	d:	Direct Push			Borehole Diamet	ter:	2 inch					
Part District Substitution S	Sampling Meth	nod:	Closed Piston			Borehole Depth:		17 feet	Surface Elevation	on:	7.63 feet asl		
Monitoring Action from Monitoring Action f	Start Time:		8:30			Commpletion Ti	me:	9:00					
Monitoring Action from Monitoring Action f	Start Date:					Completion Date	2:	2/28/2014					
Page				1	1			Monitoring Action levels					
Content Cont				i		1		I		cpm			400 ppm
1				Graphic Log	USCS Code			Soil Description					Photo Log
1	(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	
SW-SM 10/784/1 Dry Brick Concrete 0.0 <43 <45 5,620	1								0.0	<40	53	4,710	
6 SC Clayey Sand with Gravel 0.0 <34 <33 4,980		5	4		SW-SM	10YR4/1		uid divici	0.0	<43	<45	5,620	
SC	5						Dry	Brick, Concrete	0.0	<94	<53	4,980	
8 5 3.5 9 10YR3/1	6				SC			Clayey Sand with Gravel					
9		5	3.5			<u> </u> 			0.0	<14	25	5,310	
11	9					10YR3/1		Bog	0.0	<34	<39	4,960	
12 SW-SM 10YR4/4 Well Graded Medium Sand with Silt and Gravel 0.0 26 <9 5,110	10				SC			· Clayey Sand with Gravel, Trace Rock					
SW-SM 10YR4/4 SW-SM 10YR4/4 Well Graded Medium Sand with Silt and Gravel 0.0	11								0.0	26	<9	5,110	
15 SC Wet Clayey Sand 0.0 <5.5 <5.9 5000	12				SW-SM								
15 SW-SM 10YR4/3 Well Graded Medium Sand with Silt and Gravel 0.0 <9 <9 4880 4880	13	5	4			10YR4/4			0.0	<5.5	<5.9	5000	
16 SW-SM	14				sc		Wet	Clayey Sand					
2 0.5					SW-SM	10YR4/3			0.0	<9	<9	4880	
		2	0.5		244-2141	10114/3		and Gravel	V.0	\3	\3	400U	

						SOI	L BORING LOG SHEET					
BOREHOLE N	JMBER:	LT-T-002		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221		1		172013/PR1	56395		
Drilling Metho		Direct Push			Borehole Diame		2 inch	1		1		
Sampling Met	:hod:	Closed Piston			Borehole Depth		16.5 feet	Surface Elevation	on:	7.52 feet asl		
Start Time:		8:35			Commpletion Ti		9:05					
Start Date:		2/28/2014			Completion Dat	e:	2/28/2014	RAD (2X Ba	ckground)	Ī	As	Pb
Range	lkover Survey (10	30-5,620 cpm	Point	5 36	4 cpm	- 1	Monitoring Action levels	14,648			24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	
(ft)	(ft)	(ft)	Grapine Log	OSCS COUC	Color	Content	Joil Description	(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
0 1	-				10YR3/4	Dry		0.0	18	75	6,210	
3	5	2.5		SM			Brick, Silty Sand with Gravel	0.0	25	91	5,660	
5			_		10YR4/1			0.0	22	37	5,800	
6	_					Moist						1
7	_				-			0.0	8	60	5,880	
8	5	2.5		CL			Sandy Clay with Gravel					
9	-			4	10YR3/1			0.0	14	18	6,825	
				SW-SM			Well Graded Medium Sand with Silt					
11				311 3111	10YR4/6		and Gravel, Trace Rock	0.0	3	4	5,875	
12						Wet						
13	6.5	4.5		SM	10YR3/6	-	Silty Sand	0.0	8	<6	5830	
14	_	5										
15	_			SW	10YR4/6		Well Graded Fine-Medium Sand	0.0	3.2	<9.7	6880	
16 16.5								0.0	3.2	\3.7	0000	

						SOII	BORING LOG SHEET					
BOREHOLE NUI	MBER:	LT-T-003		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - PG	6M7600			110-009576			
HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method		Direct Push			Borehole Diamet	er:	2 inch			ı		
Sampling Meth	od:	Closed Piston			Borehole Depth:			Surface Elevatio	n:	8.81 feet asl		
Start Time:		9:10			Commpletion Tir		10:00					
Start Date:		2/28/2014			Completion Date	:	2/28/2014	242 (242		1		
MARRSIM Wall	kover Survey (10		la			N	Monitoring Action levels	RAD (2X Bac			As 24 nnm	Pb
Range		0-5,810 cpm	Point		1 cpm		0.10	14,648		81	24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil Color	Moisture	Soil Description	PID Reading	As (nam)	Pb (nnm)	RAD	Photo Log
(ft) 0	(ft)	(ft)			Coloi	Content		(ppm)	(ppm)	(ppm)	(cpm)	
1 2						Dry		0.0	14	72	7,070	
2	5	3		SM	10YR4/3		Grass, Brick, Concrete, Silty Sand with Gravel					9
3								0.0	18	14	6,920	1111
4						Marian					,	
5						Moist		0.0	25	45	6.240	
6					10YR4/1			0.0	25	15	6,210	0
7				GW			Gravelly Sand					10
8	5	2						0.0	45	25	6,220	
9				SM	10YR3/1		Silty Sand with Gravel	0.0	23.6	7.1	5,965	
10											.,,	100
11				SW-SM			Well Graded Medium Sand with Silt	0.0	18.5	7.1	6,490	
12					10YR4/1	Wet	and Some Gravel				,,,,,,,	
13	5	3		CL			Sandy Clay with Gravel, Trace Pebbles	0.0	1.2	9.4	6880	
14												
15			-	SM	10YR5/1		Silty Sand	0.0	1.9	4.9	6250	
16												
17	3	4		SW	10YR5/2		Well Graded Fine-Medium Sand	0.0	<1	5.3	6575	
18				SM			Silty Sand					

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-004		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	GM7600			110-009576	i		
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	156395		
Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch	1		1		
Sampling Meth	nod:	Closed Piston			Borehole Depth:		18 feet	Surface Elevation	on:	8.67 feet asl		
Start Time:		9:05			Commpletion Ti		9:30					
Start Date:		2/28/2014			Completion Date	2:	2/28/2014			1		
	kover Survey (10						Monitoring Action levels	RAD (2X Ba			As	Pb
Range		60-5,835 cpm	Point		9 cpm			14,648	1		24 ppm	400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2	5	5		SM	10YR3/1	Dry	Silty Sand with Gravel	0.0	90	389	5,890	
3		3						0.0	<10	39	6,130	
5						Moist		0.0	37	157	5,970	
6				CL			Sandy Clay with Gravel				·	E 3
7	5	3			10YR4/3			0.0	3	31	6,020	
9				SM			Silty Sand with Gravel	0.0	5	12	6,300	
					10YR2/1							
11				CL		Wet	Clayey Sand with Gravel	0.0	24	116	6,140	
12				OL	10YR4/2	wet	Bog					
13	5	4		SW-SM	10YR4/1		Well Graded Medium Sand with Silt and Gravel	0.0	<5.9	<6	5990	
14												
15				CL	10YR3/1		Sandy Clay with Gravel	-				
16					10YR4/1		Clay with Gravel	0.0	<6	10	5870	100
17	3	0.5		SW	10YR2/2		Well Graded Medium Sand with Gravel, Trace Rock					1
18					10YR6/1		Well Graded Fine-Medium Sand					16.4

							SOI	L BORING LOG SHEET					
	BOREHOLE NU	MBER:	LT-T-005		Instrument			Model Number				Seria	l Number
	GEOLOGIST:		AR/TF		PID:	RAE Systems - Pe	GM7600			110-009576			
	HEALTH TECHN	IICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
Į	WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
	Drilling Method	d:	Direct Push			Borehole Diame	ter:	2 inch					
	Sampling Meth	nod:	Closed Piston			Borehole Depth:	:	19 feet	Surface Elevation	n:	10.24 feet as	il	
	Start Time:		9:35			Commpletion Ti	me:	10:00					
li i	Start Date:		2/28/2014			Completion Date	e:	2/28/2014	1		1		T
- 11		kover Survey (10			1			Monitoring Action levels	RAD (2X Ba			As	Pb
ŀ	Range		0-6,480 cpm	Point		2 cpm			14,648			24 ppm	400 ppm
	Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
	0 1 2					10YR3/2	Moist		0.0	<8	65	6,195	STATE OF THE PARTY
	3	5	3		SM		Dry	Silty Sand with Gravel, Trace Rock	0.0	18	<10	6,150	
	5					10YR3/3			0.0	46	<41	5,530	
	7	5	4		SW	10YR4/2		Well Graded Medium-Coarse Sand with Gravel	0.0	15	30	5,700	
	9				SW-SM	10YR2/1		Well Graded Medium Sand with Silt and Gravel	0.0	6	118	6,775	
	11				OL	10YR3/1	Wet	Bog	0.0	<4	9	5,960	1
	12	5	4										
	13	5	4		SW-SM	10YR4/1		Well Graded Medium Sand with Silt and Gravel	0.0	5	6	6430	
	15					10YR4/6	-		0.0	<4	7	5760	
	16					10184/0	_	Sandy Clay wit hGravel	0.0	. 4	,	3/00	
	17	4	4		CL	10YR3/1		Clay	0.0	6	12	6880	
	19							Sandy Clay with Gravel					

						SOIL	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-006		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN		MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Method		Direct Push			Borehole Diame		2 inch	1		1		
Sampling Meth	nod:	Closed Piston			Borehole Depth:		15 feet	Surface Elevation	n:	8.51 feet asl		
Start Time:		10:05			Commpletion Ti		10:30					
Start Date:		2/28/2014			Completion Date	e:	2/28/2014	DAD /3V D	J	1	۸-	l Di-
	kover Survey (10			1		N	Monitoring Action levels	RAD (2X Bad 14,648			As 24 ppm	Pb 400 ppm
Range			Point	Ti and the second) cpm		0.110		1			400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
0 1	(10)	(1)			Color	Moist		0.0	<7	932	6,530	
3	5	2		SM	10YR3/2		Wood, Silt ySand with Gravel	0.0	3.4	56	6,050	
5						Dry		0.0	9	27.9	5,735	
6												
7								0.0	3.2	52	6,375	
8	5	2			10YR4/1							
9				SW-SM			Well Graded Medium Sand with Silt and Gravel	0.0	2.6	8.6	6,010	
10					10YR3/1		anu Gravei					19 8
11								0.0	<1.3	21.3	5,740	
12						Wet					5,7 10	
13	5	1.5		CL	10YR4/2		Sandy Clay with Gravel	0.0	1.9	11.5	8575	2
14								-	-	-	-	
15								0.0	<1.4	32	6620	

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-007		Instrument			Model Number				Seria	l Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN		MS		XRF:	Innov-X System	s Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221		<u> </u>		172013/PR1	156395		
Drilling Metho		Direct Push			Borehole Diame		2 inch	I .		1		
Sampling Meth	nod:	Closed Piston			Borehole Depth		19 feet	Surface Elevation	on:	10.05 feet as	sl	
Start Time:		10:30 2/28/2014			Commpletion T		11:00 2/28/2014					
Start Date:	kover Survey (10				Completion Dat	e:	2/28/2014	RAD (2X Bad	kground)		As	Pb
Range		10-6,830 cpm	Point	5.89	2 cpm	'	Monitoring Action levels	14,648			24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	•
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Photo Log
1 2					10YR4/2			0.0	15.4	31.8	5,230	
3	5	3		SM	10YR4/4	Dry	Concrete, Silty Sand with Gravel	0.0	2.7	16.4	5,460	
5			_		10YR2/1			0.0	5	43.2	5,390	
7	5	3.5						0.0	5.7	8.6	5,110	
9	-			CL	10YR3/1	Moist	Sandy Clay with Gravel	0.0	3.6	23.7	5,270	
11				SM			Silty Sand with Gravel	0.0	<1.3	18.2	5,330	
13	5	5		SW-SM			Well Graded Fine-Medium Sand with Siltand Gravel			6.5	5360	
14				CL			Clay	0.0	<1	6.5	5360	
15				SW-SM	10YR4/1	Wet	Well Graded Fine-Medium Sand	0.0	4.2	8.6	5270	
16 17				CL			Clay	0.0	7.4	0.0	3270	
18	4	5		SW			Well Graded Fine-Medium Sand	0.0	<1.2	19.2	5140	
19												3

							SOII	BORING LOG SHEET					
E	BOREHOLE NU	MBER:	LT-T-008		Instrument			Model Number				Seria	al Number
	GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
ŀ	HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X System	s Inc DS-4000			500301			
١	WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
[Orilling Method	d:	Direct Push			Borehole Diame	eter:	2 inch					
9	Sampling Meth	nod:	Closed Piston			Borehole Depth	:	18 feet	Surface Elevation	on:	9.30 feet asl		
- 11	Start Time:		10:35			Commpletion T		11:00					
li:	Start Date:		2/28/2014			Completion Dat	e:	2/28/2014					
- 15		kover Survey (10		1	1		_ N	Monitoring Action levels	RAD (2X Ba			As	Pb
F	Range		20-5,185 cpm	Point		0 cpm			14,648	T .		24 ppm	400 ppm
	Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading	As	Pb (ppm)	RAD (cpm)	Photo Log
-	0	(10)	(res)			20.01	Moist		(ppm) 0.0	(ppm) <6	44	5,785	
-	3	5	4		SM	10YR4/2		Silty Sand with Gravel, Trace Rock	0.0	<16	<18	6,245	
-	5						- Dry						
	6			-		10YR4/4			0.0	<13	<15	5,750	
-	7					- 10YR4/6			- 0.0	15	16	6,275	
ļ	8	5	4		CL			Sandy Clay with Gravel					
	9							Clay	0.0	5	13	5,710	
	10				SM		Moist	Silty Sand with Gravel					
-	11				CL			Sandy Clay with Gravel	0.0	<4	16	6,040	
-	13	5	5		OL	10YR3/1		Bog	0.0	<6	25	5750	
	15				SW-SM	-		Well Graded Medium Sand with Silt and Gravel	0.0	8	68	6330	
	16		_		CL		Wet	Clay with Rock					
	17	3	5		SW	-		Well Graded Medium Sand with Gravel	0.0	<3	7	5775	

						SOIL	BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-009		Instrument			Model Number				Seri	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - Po	6M7600			110-009576			
HEALTH TECHN		MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho		Direct Push			Borehole Diamet		2 inch	1		ı		
Sampling Meth	iod:	Closed Piston			Borehole Depth:		20 feet	Surface Elevation	on:	11.51 feet as	il	
Start Time:		11:05			Commpletion Tir		11:35					
Start Date:		2/28/2014			Completion Date	:	2/28/2014	/		1		
	kover Survey (10					N	Monitoring Action levels	RAD (2X Bad 14,648			As 24 ppm	Pb 400 ppm
Range			Point		0.11		0.110		1			400 ppm
Depth (ft)	Advance (ft)	Recovery (ft)	Graphic Log	USCS Code	Soil Color	Moisture Content	Soil Description	PID Reading (ppm)	As (ppm)	Pb (ppm)	RAD (cpm)	Photo Log
1 2				SM	10YR4/2	Dry	Silty Sand with Gravel	0.0	32	20		
	5	2.5		SIVI	10114/2	ыу	Sitty Salid With Graver					
3								0.0	5	33		
4												
5						Moist		0.0	15	23		
6				SW-SM	10YR3/1		Well Graded Medium Sand with Silt and Gravel	0.0	15	23		
7								0.0	13	15		
8	5	3.5		SC	10YR4/1		Clayey Sand with Gravel					
9								0.0	<4	88		
10						Wet						
11								0.0	<3	25		
12				SW-SM	10YR4/3		Well Graded Medium Sand with Silt and Gravel					
13	5	3.5										
14								0.0	<4	91		
15												

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-010		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECHN	NICIAN:	MS		XRF:	Innov-X Systems	Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	ter:	2 inch					
Sampling Meth	nod:	Closed Piston			Borehole Depth	:	10 feet	Surface Elevation	on:	10.01 feet as	il	
Start Time:		11:30			Commpletion Ti	me:	12:05					
Start Date:		2/28/2014			Completion Date	e:	2/28/2014					
MARRSIM Wal	kover Survey (10)'X10')				l ,	Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,34	0-5,680 cpm	Point	4,99	3 cpm	'	World He Action Tevels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	Thoto Log
1 2	5	4		SW-SM	10YR3/2	Dry	Well Graded Medium Sand with Gravel, Concrete @ 3'	0.0	8	63	5,770	
4								0.0	10.9	34	6,520	
5					10YR4/1			0.0	7	35.8	5,840	
6					10YR3/1	Moist						
7					10YR4/1			0.0	3.1	18.7	6,680	
8	5	3		SM	10YR5/2		Silty Sand with Gravel	3.3	5		-,	
9					10YR3/1	Wet		0.0	3.1	14.3	6,210	

10YR4/4

						SOI	L BORING LOG SHEET					
BOREHOLE NU	JMBER:	LT-T-011		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X System	s Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221	· · · · · · · · · · · · · · · · · · ·			172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	hod:	Closed Piston			Borehole Depth	:	9.5 feet	Surface Elevation	on:	9.30 feet asl		
Start Time:		11:40			Commpletion T	ime:	11:55			•		
Start Date:		2/28/2014			Completion Dat	e:	2/28/2014					
MARRSIM Wal	lkover Survey (10)'X10')					Monitoring Action levels	RAD (2X Bad	ckground)		As	Pb
Range	4,67	'5-7,280 cpm	Point	5,20	6 cpm	<u>'</u>	violitoring Action levels	14,648	cpm		24 ppm	400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
2 3	- 5	4		SM	10YR4/1 10YR3/2	Moist	Brick, Silty Sand with Gravel	0.0	<13 137	52 149	6,150	
5					10YR4/4			0.0	33	18	6,260	
6	-					Dry	W. II. G I I					
7	-			SW-SM	10YR5/6		Well Graded Medium Sand with Silt and Gravel	0.0	5	19	5,990	
8	4.5	3.5			- 10YR4/3							
9				SM	20.114/3		Silty Sand with Gravel	0.0	<6	20	5,875	
9.5					10YR4/2							

						SOI	L BORING LOG SHEET					
BOREHOLE NU	MBER:	LT-T-012		Instrument			Model Number				Seria	al Number
GEOLOGIST:		AR/TF		PID:	RAE Systems - P	GM7600			110-009576			
HEALTH TECH	NICIAN:	MS		XRF:	Innov-X Systems	s Inc DS-4000			500301			
WEATHER:		Sunny 21°		SCALER:	Ludlum 2221				172013/PR1	56395		
Drilling Metho	d:	Direct Push			Borehole Diame	eter:	2 inch					
Sampling Metl	nod:	Closed Piston			Borehole Depth	:	9.5 feet	Surface Elevation	n:	9.30 feet asl		
Start Time:		12:00			Commpletion Ti	ime:	12:30					
Start Date:		2/28/2014			Completion Date	e:	2/28/2014					
MARRSIM Wal	kover Survey (10	D'X10')				Monitoring Action levels	RAD (2X Bad	kground)	As		Pb	
Range	5,110-10,070 cpm Point			5,05	5 cpm	ľ	Nonitoring Action levels	14,648	cpm	24 ppm		400 ppm
Depth	Advance	Recovery	Graphic Log	USCS Code	Soil	Moisture	Soil Description	PID Reading	As	Pb	RAD	Photo Log
(ft)	(ft)	(ft)			Color	Content		(ppm)	(ppm)	(ppm)	(cpm)	T Hoto Log
0 1 2 3	5	2		SW-SM	10YR5/4 10YR4/2	Wet	Well Graded Medium Sand with Silt and Gravel	0.0	30 40	23	5,940 6,140	
6			-	SM	10YR3/1		Silty Sand with Gravel	0.0	55	57	6,210	
7.5	2.5	4		SC	10YR4/1		Clayey Sand with Gravel	0.0	<99	102	5,975	